

# TAVOR® SAR

## SEMI-AUTOMATIC RIFLE

**CALIBER: 5.56 NATO/.223 REM**

**WITH INSTRUCTIONS FOR 9X19mm CONVERSION KIT**



## OPERATOR MANUAL



Read the instructions and warnings in this manual carefully and understand them before using this firearm. If there is anything you do not understand, seek advice from your retailer or someone qualified in the safe handling of firearms, or contact IWI US, Inc. at 717-695-2081 or [service@iwi.us](mailto:service@iwi.us).

This Operator Manual should always accompany this firearm and be transferred with it upon change in ownership, or when the firearm is loaned or transferred to another person.



*Congratulations on your purchase of the  
TAVOR® SAR SEMI-AUTOMATIC RIFLE.*

Your packaging includes:

**A. Tavor Cleaning Kit—Pouch Contents**

1. Sight Adjustment Tool—in small bag
2. Quick-Detachable Sling Swivels (2)—in small bag
3. Bore Brush
4. Chamber Brush
5. Cleaning Brush
6. Large White Gas Piston Tube Brush
7. Cleaning Rod
8. Oil Bottle

**B. IWI Magazine (1)**

**C. Literature Packet**

1. This Manual
2. NSSF Firearms Safety Depends on You Pamphlet
3. NSSF Firearms Responsibility in the Home Pamphlet
4. 18U.S.C.§922(r) and 27CFR§478.39 Regulatory Compliance Notice
5. IWI US, Inc. Limited Product Warranty Card
6. National Rifle Association (NRA) Application
7. IWI Decal

**D. Gun Cable Lock**

**E. Protective VCI Bag**

If you notice that anything is missing from the above listing, please contact IWI US customer service at either [info@iwi.us](mailto:info@iwi.us) or call 717-695-2081.

We appreciate your business.

*IWI US, Inc.*

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# 1 Warning



PRIOR TO REMOVING THIS GUN FROM ITS PACKAGING, AND PRIOR TO HANDLING, LOADING AND FIRING, CAREFULLY AND THOROUGHLY READ AND UNDERSTAND THIS ENTIRE OPERATOR MANUAL WHICH GIVES ADVICE ON THE FIREARM'S PROPER HANDLING, FUNCTIONING AND SAFE USE. YOUR SAFETY AND THAT OF OTHERS (INCLUDING YOUR FAMILY) DEPENDS ON YOUR RESPONSIBLE COMPLIANCE WITH THAT ADVICE, GOOD JUDGMENT AND COMMON SENSE. **FIREARMS SAFETY DEPENDS ON YOU.** YOU CANNOT FORGET, YOU CANNOT OVERLOOK, YOU CANNOT ALLOW YOURSELF TO BE DISTRACTED, YOU CANNOT BECOME COMPLACENT OR CASUAL WITH FIREARMS.

THERE ARE NO "FOOLPROOF" FIREARMS. ONCE A SHOT IS FIRED, IT CANNOT BE CALLED BACK. A FIREARM IN YOUR HANDS CAN CAUSE UNINTENDED DEATH OR SERIOUS BODILY HARM IF YOU FAIL TO FOLLOW SAFE GUN HANDLING RULES AND PRACTICES SUCH AS THOSE CONTAINED IN THIS MANUAL. **REMEMBER, FIREARMS SAFETY DEPENDS ON YOU!**

IF UNFAMILIAR WITH FIREARMS, SEEK SUPERVISED INSTRUCTION FROM A CERTIFIED INSTRUCTOR.

## 2 This Manual Contains

- Important **WARNINGS** and **SAFETY PRECAUTIONS** that must be read and understood before using this firearm. **SAFE GUN HANDLING IS YOUR PERSONAL RESPONSIBILITY AT ALL TIMES.** Disregarding the warnings and safety precautions in this manual can result in injury or death to you and others and damage to property.
- *Directions* and *procedures* for handling, loading firing, unloading, disassembling and assembling this firearm.
- *Instructions* for care, cleaning and repair of this firearm.

This Operator Manual is designed to help you in learning how to properly and safely use and care for your TAVOR® SAR. Only when you are certain you have fully familiarized yourself with the function of your firearm, should you practice loading, unloading, and firing with live rounds of ammunition at a firing range or other safe location.

This Operator Manual should always accompany the firearm and be transferred with the firearm on change of ownership or possession. Should you ever need to replace it, this manual is available FREE upon request from IWI US, Inc. or on the IWI US, Inc. website at [www.iwi.us](http://www.iwi.us).

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## 3 Icons in This Manual

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Before you start, familiarize yourself with the icons you will see in the manual.

### HAZARDS



**DANGER**—indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



**WARNING**—indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



**CAUTION**—indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury or an unsafe practice that can lead to property damage.

### NOTE

notifies of particularly important information.

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## 4 Illustrations in This Manual

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The illustrations in this manual may differ slightly from the actual product.

The illustrations in this manual relate to the **right hand shooter** configuration. When converting the firearm to the left hand configuration, reposition the part/component on the reverse side whenever prompted.

## 5 Dangerous Procedures



**WARNING!** Always have the headspace checked by a competent gunsmith with “Go” and “No-Go” gauges after replacing the bolt or barrel assembly. Failure to check the headspace may result in personal injury or death to you and others and could cause severe firearm damage.



**WARNING!** If your gun misfires with a live round in the chamber of a hot barrel, immediately remove the round while keeping the barrel pointed in a safe direction and the ejection port turned away from your face.

If unable to remove the live round within 10 seconds, remove the magazine, keep the gun pointed in a safe direction, and wait 15 minutes for the barrel to cool. Then remove the round.

Continuous or rapid firing of your gun can cause the barrel temperature to reach a **“COOKOFF POINT”**, where the heat of the barrel can cause a live round to fire from remaining in contact with a hot chamber. If you have been firing continuously or rapidly, do not allow a live round to remain in the chamber when you finish firing, as it may **“COOK OFF”** (FIRE). Always keep your face away from the ejection port when clearing a hot chamber.



**WARNING!** Never fire your gun with water, grease, excess oil, or any other obstruction in the barrel as this could cause the gun to explode! Be sure the barrel is clear of obstructions before shooting.



**WARNING!** When firing and you experience a noticeable difference in sound or recoil, **STOP FIRING!**

The cause for either condition could be incomplete powder burn, a cartridge with a primer but no powder (“SQUIB LOAD”) or too little powder, and/or a bullet stuck in the bore.

Immediately unload the gun and check for unburned powder residue in the bore and the receiver or a bullet stuck in the bore. Remove the unburned powder before resuming firing. If a bullet is stuck in the bore, have a qualified gunsmith take care of the problem. Never try to **“SHOOT OUT”** a bullet stuck in the bore. Firing with unburned powder in the barrel or a bullet stuck in the bore could cause the barrel to explode causing serious injury or death.

## 6 General Safety Rules and Procedures



**WARNING!** Careless and improper handling of this gun could result in unintended discharge, causing injury, death or property damage. Safety must be the first and constant consideration when handling a firearm and ammunition. **SAFETY DEPENDS ON YOU.**



**WARNING!** This firearm was designed to function properly in its original condition. Do not alter any parts. Do not replace any parts unless you are factory-trained to do so and then use only original factory parts from IWI US, Inc.



**WARNING!** This firearm should always be carried with the chamber empty and with the safety **"ON SAFE"** to prevent accidental discharge.

### Important Note:

This Operator Manual and the instructions and warnings contained in it are intended for the civilian recreational user, target shooter, or hunter, and not necessarily for the law enforcement, security, military, or other "defensive" user. Defensive use of this or any other firearm involves unusual, serious risks, and may at times require deviation from certain safety rules and gun handling procedures contained in this manual. Such defensive procedures and deviations are beyond the scope of this manual. In order to use such defensive procedures safely requires intensive initial training and qualification from a proper professional source, followed by "in service" training and qualification at appropriate intervals. Anyone who has not been properly and professionally trained in defensive gun handling procedures must not attempt to use this firearm in any manner other than as set out in this Operator Manual. Doing so can result in serious injury or death.



**WARNING!** Always handle and treat your firearm as if it were loaded so you will never fire it accidentally when you mistakenly think it is unloaded. Never take anyone's word that it is unloaded. Always check it yourself with your fingers off the trigger and the gun pointed in a safe direction. Even after you have confirmed that the gun is unloaded, continue to treat it as if it were loaded.



**WARNING!** Never place your fingers inside the trigger guard area unless you are aiming at a proper target and intend to fire. Instead, keep your trigger finger wrapped around the grip or braced on the gun's frame until you intend to fire. Do not pull the trigger or attempt to fire until the safety selector has been moved to the FIRE position.



**DANGER!** DO NOT grasp the forward portion of the trigger guard/pistol grip frame with your non-shooting hand or allow any fingers of your non-shooting hand to enter the trigger guard at any time. If you do so, there is a chance your non-shooting hand or fingers could touch the trigger, unintentionally firing the firearm and resulting in death or serious injury.



**WARNING!** If your finger is on the trigger or inside the trigger area, you may unintentionally discharge the firearm if you are startled, if you lose your balance, if you exert muscular force with your other hand or arm or with either leg, or if something comes in contact with your hand, arm, or the gun. Always keep the safety "ON SAFE" and your finger outside the trigger area, wrapped around the grip or braced on the gun's frame, until you intend to fire.



**WARNING!** Upon firing, a hot, empty shell casing is forcefully ejected from the right side of the firearm. All persons present must wear suitable eye protection, and must stand clear of the case ejection area.



**WARNING!** Keep the gun's muzzle pointed in a safe direction at all times. A safe direction is one in which an unintentionally fired shot will not cause any physical injury or property damage. Never let the muzzle of a firearm point at any part of your body or another person, or in any direction where an injury may result if the gun were to fire. Always be sure of your target and what's beyond and around it before firing.



**WARNING! UNLOAD ALL FIREARMS WHEN NOT IN USE. NEVER STORE A LOADED FIREARM.** Firearms and ammunition should be stored separately under lock and key so that they are inaccessible to children or unauthorized users. Never leave a loaded firearm, or any firearm or ammunition, unattended where an unauthorized user might have access to it. At the range, any firearm you lay down on the shooting bench should be unloaded, with its action locked open. Never lean or place a firearm where it could slide or fall, such as leaning it against or placing it on a vehicle. Never let the muzzle of a firearm touch the ground, or touch mud, sand or snow that might obstruct the bore, causing the barrel to burst when you fire. If you drop a firearm, pick it up carefully with it pointed in a safe direction (have all other people move out of the direction of the muzzle), with your finger outside the trigger area and the safety in the "ON SAFE" position. Then unload the firearm, and check to be sure there are no obstructions in the bore. This can be done safely with a cleaning rod, or by disassembling the firearm and looking down the bore from the chamber (rear) end. If there is any possibility of damage to your TAVOR® SAR, have it inspected by a qualified gunsmith, or return it to IWI US, Inc. for inspection, before you load or fire it again.



**WARNING!** Always make sure your firearm is not loaded before cleaning, storing, transporting or handing it to another person. Firearms should be transported unloaded and in a protective gun case.



**WARNING!** Whenever you pick up any firearm that, even for an instant, has been out of your direct, continuous control, the first thing you must do, while keeping the muzzle pointed in a safe direction and your fingers out of the trigger area, is to open the firearm's action (mechanism) to determine whether or not it is loaded.



**WARNING!** Always wear and require others to wear wraparound ANSI or OSHA approved safety glasses while shooting to protect your eyes from injury by ejected shell cases, gun powder gas, lubricant, dirt or metallic particles, carbon residue, sparks, bullet splashback from targets or other debris.



**WARNING!** Always wear and require others to wear commercially manufactured ear protection when shooting. Without ear protection, the noise from your gun, and other guns close to you, could leave a “ringing” in the ears for some time after firing, and could result in permanent hearing loss.



**WARNING!** Learn the mechanical and handling characteristics of the firearm you are using. Not all firearms are the same, and your TAVOR® SAR firearm has some unique features. Do not assume that just because you have experience with other firearms, you know how to use the TAVOR® SAR firearm properly. Read and understand this manual. If there is anything you do not understand, contact your firearms retailer or IWI US, Inc. at [service@iwi.us](mailto:service@iwi.us) or telephone 717-695-2081.



**WARNING!** Never climb or descend a tree, fence or wall, jump across a stream or ditch, or attempt to cross an obstacle, ice, or precarious terrain while carrying a loaded firearm. Whenever you are going to do anything awkward, unload the gun first!



**WARNING!** Do not shoot at a hard surface, such as rock, masonry or metal, or at water or ice. The bullet may ricochet and travel in unpredictable directions to strike you or another unintended person or object, or even an object that you cannot see.



**WARNING!** A bullet fired into the air can travel over one mile, and can kill or seriously injure someone when it comes down. Never fire into the air, or at a target or animal in a tree or on the crest of a hill.



**WARNING!** Before hunting with this or any other firearm, take an approved Hunter Safety Course, taught in all states by the state game commission or by the National Rifle Association (NRA). Follow your state's game laws at all times while hunting.



**WARNING!** Firing a gun near livestock or other domestic animals may startle them and cause them to injure themselves, other animals, or people, or to cause property damage. Think first before you discharge any firearm.



**WARNING!** If you have not received formal firearms instruction or if you have any doubts about your ability to handle or use this firearm safely, seek supervised instruction from a certified instructor. Information about sources of firearms instruction can often be obtained from your local police department, firearms retailer, gun club, shooting range, state game commission, or from the National Rifle Association ("NRA"), 11250 Waples Mill Road, Fairfax, Virginia 22030, telephone 1-703-267-1000 or 1-800-672-3888.



**WARNING!** If at any time you notice something about the appearance or functioning of your TAVOR® SAR firearm that does not seem proper or that causes you concern, STOP, unload your firearm immediately, and do not load or fire your firearm until you have it inspected and, if necessary, repaired by a factory-trained armorer, or by IWI US, Inc. If you fire your TAVOR® SAR firearm extensively, have it professionally inspected and serviced periodically (annually is a good average interval) by a factory-trained armorer or by IWI US, Inc.



**WARNING!** Firearms and alcohol do not mix. Never drink alcoholic beverages or take drugs before or during shooting. This constitutes criminal disregard for your safety and that of others. Some medications can impair your vision, balance, reflexes, coordination, alertness or judgment. Never use a firearm while you are taking medication unless you have checked with your doctor to ensure your fitness to handle your firearm safely. Do not handle your firearm when you are ill, tired, upset or distracted.



**WARNING!** Horseplay has no place around firearms. Guns can't think – you can! **SAFETY DEPENDS ON YOU!**



**WARNING!** Remember, safety is your responsibility. Be a safe shooter. **SAFETY DEPENDS ON YOU!**



**WARNING! FOLLOW THE LAW.** Obey all local, state and federal laws regarding possessing, storage, shooting and transporting your firearm.



**WARNING!** Discharging firearms in poorly ventilated areas, cleaning or handling firearms, or handling ammunition may result in exposure to lead and other substances that may cause birth defects, reproductive harm, and other serious physical injury. Have adequate ventilation at all times. Wash your hands and face thoroughly after exposure, and before eating or drinking. Shooting, handling or cleaning guns may expose you to lead, which is a toxic substance.

**REMEMBER, FIREARMS SAFETY DEPENDS ON YOU! THERE ARE NO  
“FOOLPROOF” GUNS, INCLUDING THE TAVOR® SAR. A SINGLE  
MOMENT OF INATTENTION OR A SINGLE FAILURE TO FOLLOW  
THESE GUN SAFETY RULES AND WARNINGS CAN RESULT IN TRA-  
GEDY. YOU ARE RESPONSIBLE FOR THE GUN THAT IS IN YOUR  
HANDS, IN YOUR POSSESSION, OR UNDER YOUR CONTROL. FIRE-  
ARMS SAFETY DEPENDS ON YOU!**

## 7 Firearms Safe Home Storage Checklist

- Firearms naturally attract the attention of children, teenagers and adults alike. Accordingly, it is YOUR responsibility to ensure that your firearms, when unattended, stored, or not in use, are secured under lock and key, safely out of the access of all unauthorized users. This is YOUR responsibility, and any mistake or laziness on your part can result in death or serious injury to your loved ones or others.
- Firearms must be securely stored under lock and key in a location inaccessible to children and other unauthorized persons.
- One of the safest ways to store your firearms is in a locking metal gun safe or lock box. Many models, including ones permitting quick access to the firearm if needed for self-defense, are now available at firearms retailers or via the Internet. Using the cable lock provided with your TAVOR® SAR SEMI-AUTOMATIC RIFLE (see “Instructions for Using the Cable Lock” on page 22) is a good safety precaution, but not as good as locking your firearm in a metal gun safe, where it is also out of sight and protected from fire, theft, and curious hands.
- Firearms should be unloaded before they are brought into the home and never loaded while in the home.
- Sporting firearms should be immediately cleaned and placed in secure locked storage when they are returned from hunting or target shooting.
- When firearms are removed from storage, they must always immediately be carefully checked to confirm that they are unloaded.
- Ammunition should be stored under lock and key, in a separate location from firearms.
- The operator manual that came with your firearm must be read, understood and followed.

*For more information on safe storage and use, refer to the NSSF pamphlets “Firearms Safety Depends on You” and “Firearms Responsibility in the Home”, available for download from the NSSF website at <http://nssf.org>.*

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# 8 General Description

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## 8.1 Features

The TAVOR® SAR features include:

- Chambered for 5.56 NATO/.223 REM ammunition.
- Rear center of gravity.
- Body made of reinforced polymer.
- Barrel and Chamber are hard chrome lined.
- Safety Lever has two positions: Fire (F) and Safe (S).
- Folding sights, adjustable for windage and elevation.
- No special tools required for field stripping.
- Bolt Carrier Stop.
- Adaptable for right/left-handed shooter with easy parts change.
- MIL STD 1913 Rails to mount optional equipment.
- Conversion Kit for cal. 9x19mm Parabellum.
- Optional integral Reflex Sight.



**DANGER!** Like other “bullpup” rifle designs, the standard TAVOR® SAR should be fired only from the right shoulder. Left-handed shooters and others wishing to fire the TAVOR® SAR from the left shoulder, must purchase the TAVOR® SAR TSB16L, a factory stock left-hand model, or must convert the rifle to left-hand use and install the left-hand bolt (*see page 39*).

Firing the standard TAVOR® SAR from the left shoulder or the TAVOR® SAR with left-hand Conversion Kit in place from the right shoulder will result in ejected cases striking the shooter in the face with considerable force, likely causing serious eye injury and other injury. Fire the TAVOR® SAR rifle only from the shoulder for which it is set up!

## 8.2 Function Overview

The TAVOR® SAR is a semi-automatic rifle that functions based on a closed bolt principle, with rotational bolt locking and gas impact on its piston head.

The movement of the safety lever and trigger is transferred rearward to the sear mechanism with the aid of a bar in the side of the TAVOR® SAR's body.

The TAVOR® SAR has a 1:7 in twist barrel for accurate firing of 5.56 NATO/.223 REM ammunition.

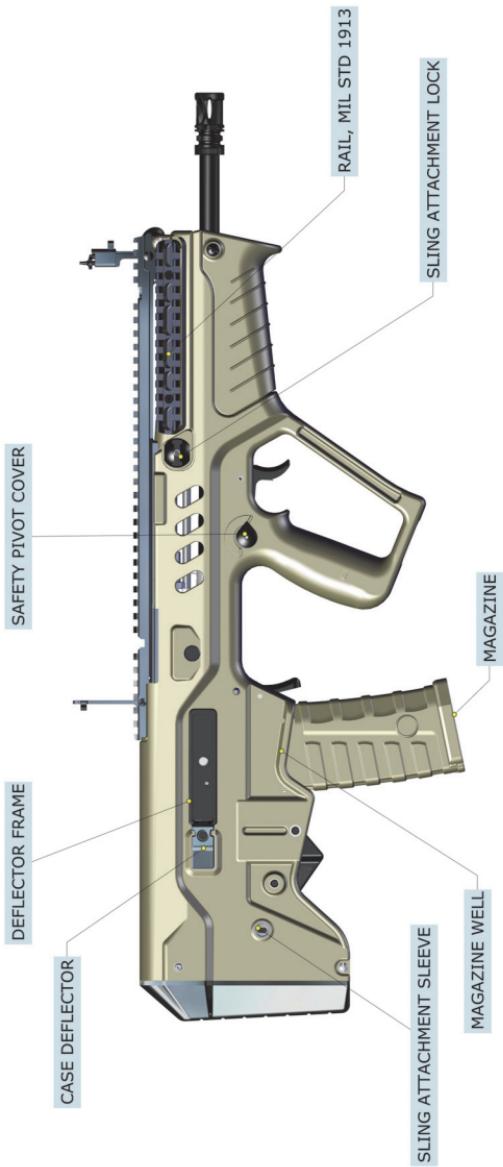
The TAVOR® SAR uses a NATO STANAG type 30-round magazine. IWI polymer magazines or other good quality AR-15 or M16 magazines may be used.

## 8.3 Technical Data\*

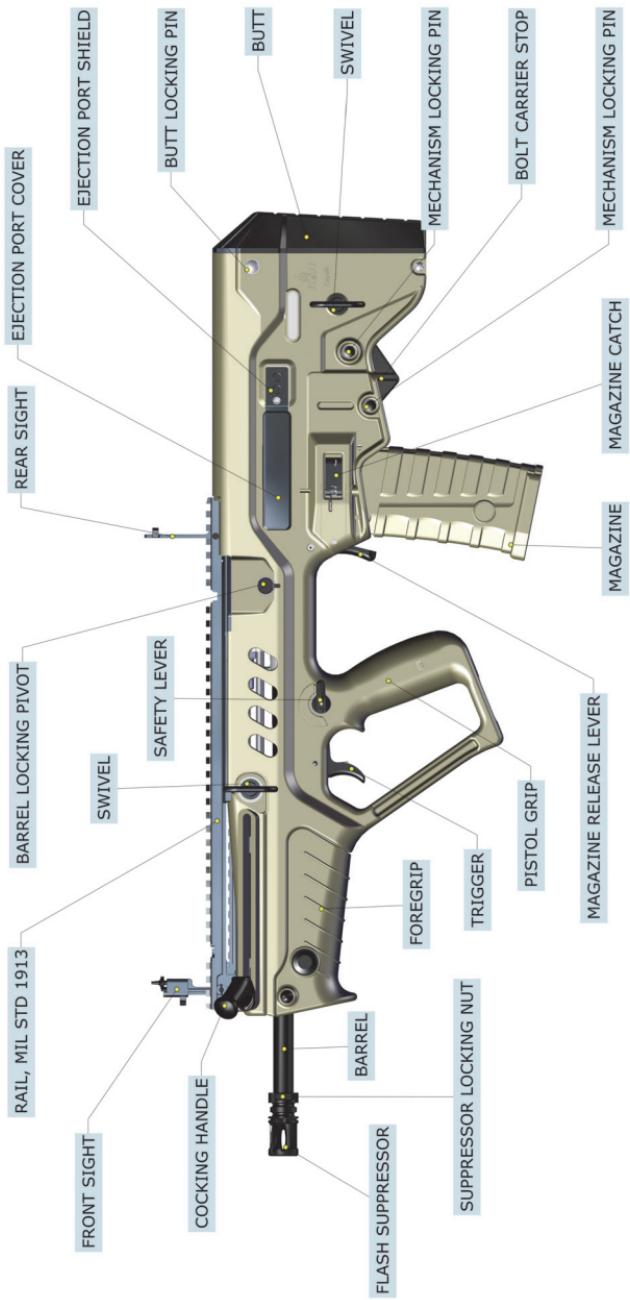
MODEL	TAVOR® SAR w/16.5" BARREL		TAVOR® SAR w/18" BARREL
CALIBER	.223 Remington/5.56 NATO		
AMMUNITION	M193/SS109 or other NATO or SAAMI specification ammunition		
OPERATION	Closed rotating bolt, long gas stroke on piston head		
FIRE MODE	Semi-Automatic		
WEIGHT (WEAPON ONLY)	7.9 Lbs.		8.5 Lbs.
OVERALL LENGTH	26½ inch		27½ inch
BARREL LENGTH	16½ inch		18 inch
RIFLING	Right Hand, 6 Grooves, 1:7 inch twist		
MUZZLE VELOCITY	2979 ft/sec (M193) 2929 ft/sec (SS109)		3044 ft/sec (M193) 2965 ft/sec (SS109)
SIGHTS	Folding front sight (blade) and rear sight (aperture)		
COLOR	Black, Flat Dark Earth		
OPTIONAL EQUIPMENT	<ul style="list-style-type: none"> <li>• Integral MEPRO 21 Reflex Sight</li> <li>• Conversion Kit for cal. 9x19mm Parabellum (see page 36)</li> <li>• Left hand bolt assembly (see page 39)</li> </ul>		

\*. Technical Data is subject to change without prior notice.

## Right External View



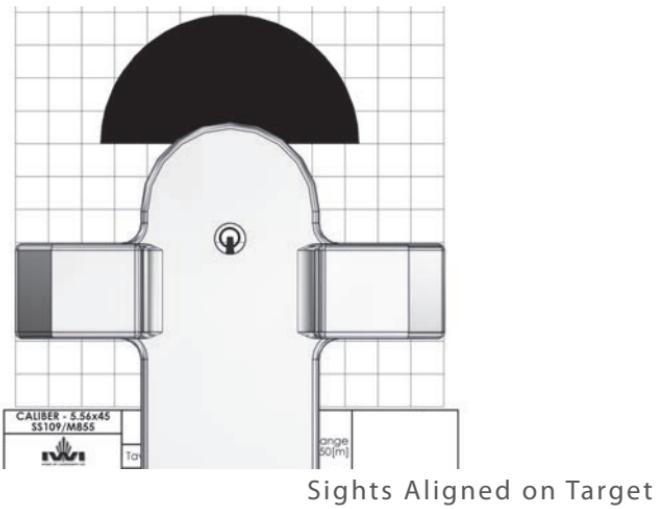
## Left External View



## 8.6 Aiming System



Folding front and rear backup sights are of blade and aperture type respectively, which enables aiming by viewing the blade through the aperture, and visually centering the top of the blade in the aperture.



For more on the aiming system, see "Adjusting the Sights" on page 29.

## 8.7 Ammunition



**WARNING!** Discharging firearms in poorly ventilated areas, cleaning or handling firearms, or handling ammunition may result in exposure to lead and other substances that may cause birth defects, reproductive harm, and other serious physical injury. Have adequate ventilation at all times. Wash your hands and face thoroughly after exposure, and before eating or drinking. Shooting, handling or cleaning guns may expose you to lead, which is a toxic substance.

Use only high quality commercially manufactured ammunition in good condition of the appropriate caliber. The caliber of your rifle is marked on the barrel. The TAVOR® SAR is chambered for 5.56 NATO, which will also fire .223 Rem caliber ammunition. Use only NATO or SAAMI specification ammunition.

Not all ammunition produces the same result. IWI US, Inc. recommends that once you find a brand which functions best, keep using it.

IWI US, Inc. does not recommend using hand loads, reloads or remanufactured ammunition, or foreign or military surplus ammunition of unknown or questionable quality. The use of this ammunition will void the IWI US, Inc. warranty, and may be dangerous, possibly causing death or serious injury if the ammunition is not made to the proper specifications.

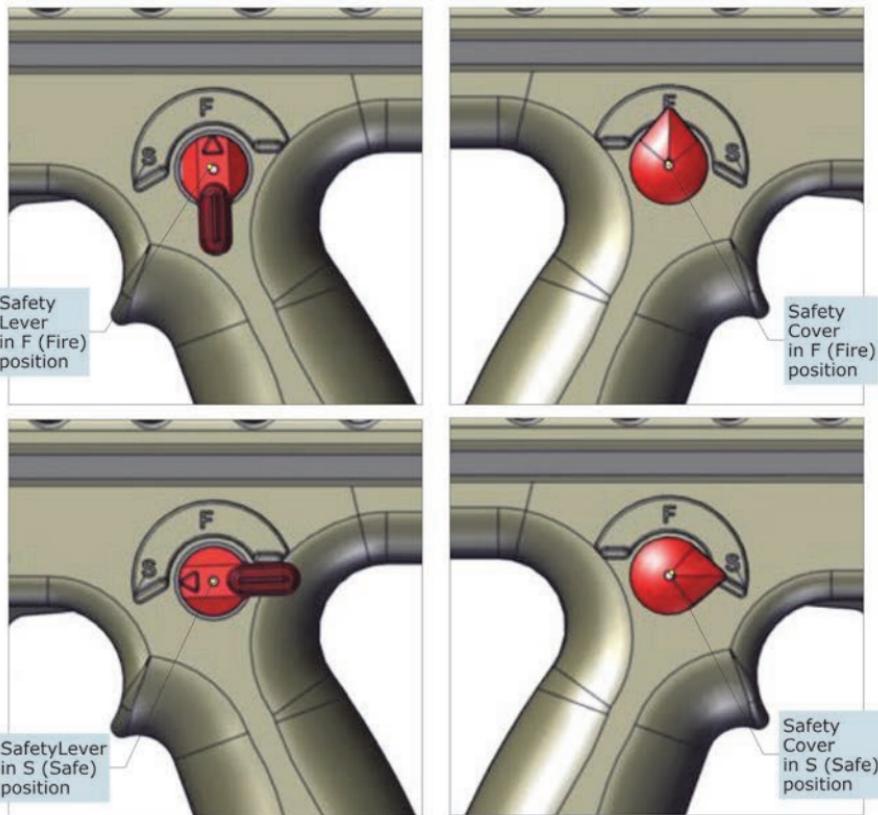
## 8.8 Safety Lever



**WARNING!** Safety is the first and foremost concern when handling any firearm. Always keep the muzzle pointed in a safe direction! Keep your fingers outside the trigger area until you are aimed at a proper (safe) target and intend to fire! Keep the safety lever "ON SAFE" until you are aimed at a proper target and only then move the safety lever to the FIRE position.

The Safety Lever is located on the left side of TAVOR® SAR body and has two positions: **FIRE (F)** and **SAFE (S)**—see “*Safety Lever Positions*” on page 21.

The Safety Lever position is also visible from the right side of TAVOR® SAR body, with the tip of the safety cover pointing to the F or S markings.



**WARNING!** The Safety Lever is not intended as a replacement for safe gun handling practices. Do not rely on the Safety Lever alone to keep you and others safe.

*For more details, see “Function Test of the Safety Lever” on page 25.*

## 9 Instructions for Using the Cable Lock

Your TAVOR® SAR rifle is supplied with a quality cable lock. Properly used, this lock will help you to secure your firearm from children and other unauthorized users to reduce the chance of an accident, either in the home or while transporting your firearm, provided you take the other reasonable safety precautions contained in this Operator Manual.



**WARNING!** **NEVER** attempt to use the cable lock on a loaded firearm - always unload the firearm before installing the cable lock. Otherwise, the firearm could discharge, causing death or serious injury.



**WARNING!** **NEVER** insert the cable lock into the trigger guard or trigger area of the TAVOR® SAR or any other firearm, as the cable could press against the trigger and fire the gun, causing death or serious injury.



**WARNING!** The cable lock supplied with your TAVOR® SAR rifle may not fit or work properly on other firearms. This lock is intended for use only on your TAVOR® SAR rifle.

To use the cable lock, do the following:

1. Be sure your firearm is empty (unloaded) by following the **Unloading and Safety Check** procedure on page 24.

*Your TAVOR® SAR should now be unloaded, with the safety lever "ON SAFE" and the bolt carrier locked open (to the rear).*



**WARNING!** Keep the muzzle pointed in a safe direction, your fingers outside the trigger area, and the safety lever "ON SAFE" throughout the process of putting the cable lock on your rifle.

2. Using the key, open the cable lock. Leave the key in the lock.
3. Insert the end of the cable lock cable through the ejection port and out through the empty magazine well.

4. Insert the end of the cable lock cable into the lock body and hold the end of the cable fully into the lock body while you turn and remove the key to lock the lock.
5. Tug hard on the cable several times to be sure the lock is locked securely.

*Used in this way, the cable lock will prevent the TAVOR® SAR's bolt carrier from closing, preventing the rifle from being fired.*

6. Take the key with you, or store the key securely in a remote location from the firearm.
7. Store your firearm in a secure place out of sight, and out of reach of children.

#### NOTE

*While the cable lock can be an important part of your firearms security program, for home storage it is not as secure as locking your gun in a metal gun safe or lock box. Use of the cable lock alone will not prevent your firearm from being stolen, and will not keep your firearm out of view of unauthorized users. The cable lock can be cut off the firearm with a hacksaw, bolt cutter or cable cutter.*

---

## 10 Operating Instructions

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**WARNING!** Before your firearm left the factory, it was function tested, inspected and packaged. IWI US, Inc. can not control the product handling after it has left our factory. Therefore, at the time of purchase carefully examine the rifle to be sure it is unloaded and undamaged and all components are included. Seek your dealer's help for assistance in examining the firearm and to answer your questions.

## 10.1 Preparation for Firing



**WARNING!** Always handle and treat your firearm as if it is loaded! Never take anyone's word that it is unloaded. Keep the muzzle pointed in a safe direction at all times. Keep your fingers outside the trigger area until you are aiming at a safe target and intend to fire.

### 10.1.1 Unloading and Safety Check

To unload or clear your rifle of live ammunition or to make sure it is unloaded, keep the muzzle pointed in a safe direction and your finger outside the trigger area while performing the following steps:

1. Using your thumb, ensure that the Safety Lever is positioned to S (Safe)—see *Safety Lever Positions* on page 21, bottom-left.
2. Press the Magazine Release Lever and pull the magazine down and out of the rifle.
3. Hold the rifle grip with all five fingers.
4. Raise the muzzle of the rifle 60° upward.
5. Cock and release the Cocking Handle fully three times releasing the Cocking Handle to let the bolt carrier move forcefully each time (do not "RIDE" the cocking handle forward).

Lean slightly forward, turn the rifle so its butt is horizontal with its right side on top, and brace the butt of the rifle securely. Pull and hold the Cocking Handle fully to the rear and move your right hand to push in the front end of the bolt carrier stop, letting the bolt then move slightly forward to lock the bolt back (to the rear).

6. Lower the muzzle 45° downward.
7. Check visually that the barrel chamber is empty ("CLEAR"). If there is not enough light for you to see clearly that the chamber is empty, use a flashlight or other artificial light. You must not "think" the chamber is empty, you must **KNOW** it is empty, because if you are wrong, death or serious injury may result.
8. Pull back on the Cocking Handle and release, or depress the rear of the bolt carrier stop, to close the bolt for storage.

9. Lower the muzzle 30° downward.
10. Place the Safety Lever to the F (Fire) position—see *Safety Lever Positions* on page 21, bottom-right. Pull the trigger (“dry fire”). This will place the hammer in the fired position for storage.
11. Place the safety lever to the S (Safe) position—see *Safety Lever Positions* on page 21, bottom-left. Your rifle is now ready for storage.



**WARNING!** Check the rifle to make sure there is no excessive oil or other obstruction in the bore. Always clean a new rifle before firing!

#### 10.1.2 Function Test of the Safety Lever



**WARNING!** Make sure the rifle is cleared, unloaded, the magazine has been removed, and the chamber is clear (“EMPTY”) before performing the safety function test and that the muzzle is pointed in a safe direction at all time.

1. Pull the Cocking Handle to the rear and release. Place the Safety Lever in the S (Safe) position (see *Safety Lever Positions* on page 21, bottom-left). Pull the trigger. The hammer should not fall (see *Hammer Positions* on page 47, left).
2. Move the Safety Lever to the F (Fire) position (see *Safety Lever Positions* on page 21, top-left). Pull the trigger. The hammer should fall (see *Hammer Positions* on page 47, right).
3. Hold the trigger to the rear. Pull the Cocking Handle to the rear and release. Release the trigger with a slow and smooth motion until the trigger is fully forward. An audible click should be heard. The hammer should not fall.



**WARNING!** If the rifle fails any of the preceding steps of the test, **do not load or use** the rifle. Contact IWI US, Inc. to return the rifle to for inspection and repair.

## 10.2 Loading



**WARNING!** Always check that the ammunition is clean and undamaged, and the correct caliber for the rifle. Forcing damaged ammunition into the chamber could result in injury, death, damage to property and damage to your rifle.

### 1. To load the magazine:

- With the front of the magazine forward, place a round between the magazine lips with the round pointed forward.
- Push the round down into the magazine until it is retained by the magazine lips.



- Place the next round on top of the previous round and press down again. Repeat until the desired number of rounds are loaded.

### 2. To load the rifle:



**WARNING!** Always position the Safety Lever in the S (Safe) position when loading and unloading the firearm!



**WARNING!** Upon firing, a hot, empty shell casing is forcefully ejected from the right side of the firearm. All persons present must wear suitable eye protection, and must stand clear of the case ejection area.

- Raise the rifle 60° up.
- Hold the rifle grip with all five fingers.

- c. Using your thumb, ensure that the Safety Lever is positioned to S (Safe)—see *Safety Lever Positions* on page 21, bottom-left.
- d. Insert the magazine in the magazine well; tap the magazine base to ensure the magazine is locked in place.



- e. Cock the rifle by releasing the bolt to move forward forcefully (do not "RIDE" the bolt forward) if the bolt is locked open, or by pulling the cocking handle fully rearward and releasing if the bolt is closed.

**THE RIFLE IS NOW READY TO BE FIRED WITH A ROUND IN THE CHAMBER AND THE SAFETY LEVER ON S (SAFE).**

## 10.3 Firing



**WARNING!** Do not chamber a round until you are ready to fire the rifle. Always keep the muzzle pointed in a safe direction. Do not disengage the safety or put your finger into the trigger area until you are aimed at a safe target and intend to fire. Always wear eye and hearing protection when firing your rifle.

- 1. With the rifle loaded and the Safety Lever on S (Safe—see *Safety Lever Positions* on page 21, bottom-left), firmly position the butt to

your shoulder with one hand on the foregrip and the other hand on the pistol grip with the trigger finger alongside the rifle's frame or trigger guard. **DO NOT HAVE YOUR TRIGGER FINGER ON THE TRIGGER AT THIS TIME.**

2. Aim by aligning the front and rear sights on the target .
3. Move the Safety Lever to the F (Fire) position—see *Safety Lever Positions* on page 21, bottom-right.
4. Gently pull the trigger until the hammer releases and the rifle fires. Release the trigger.



**WARNING!** This semi-automatic rifle will automatically eject the spent case and load the next round from the magazine into the chamber, ready to fire if you pull the trigger again.

Repeat aiming and pulling the trigger to fire a shot, then releasing the trigger, aiming and pulling the trigger to fire the next round and subsequent rounds. until you are finished firing or the magazine is empty.

5. When finished firing, remove your finger from the trigger and move the Safety Lever to the S (Safe) position—see *Safety Lever Positions* on page 21, bottom-left.

*After the last round is fired from the magazine (when the magazine is empty), the bolt carrier will lock in the rear position.*

**...WHEN THE MAGAZINE IS EMPTY:**

6. Remove the empty magazine by pressing the Magazine Release Lever.

To continue firing, insert another loaded magazine, release the bolt carrier stop and a new round will be chambered. Be careful because the rifle is now ready to fire again if the trigger is pulled.

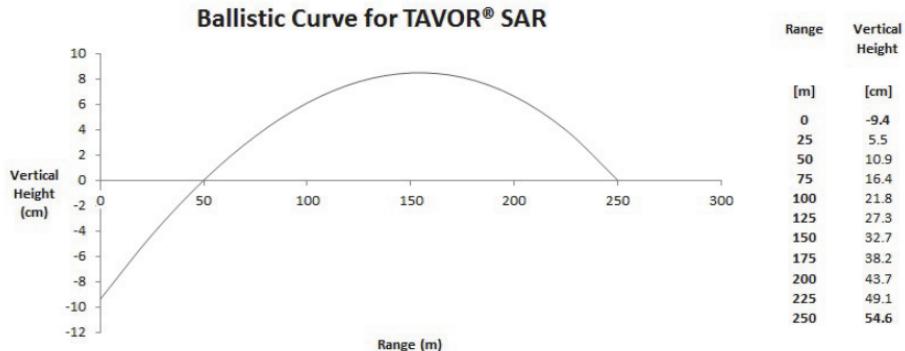
7. Whenever you stop firing, even momentarily, place the Safety Lever in the S (Safe) position—see *Safety Lever Positions* on page 21, bottom-left.
8. When you finish firing, unload the rifle and confirm that it is empty ("clear"), following the **Unloading and Safety Check** procedure on page 24.

# 11 Adjusting the Sights

## 11.1 Zeroing Procedure

1. Fire 5 rounds at a zeroing target placed at a 25 m distance.
2. Once you achieve your group, calculate the MPI (Mean Point of Impact, the geometrical center of all the points of impact).
3. Using the squares on the zeroing target, calculate the number of "clicks" needed to bring the MPI to the OPI (Optimal Point of Impact).

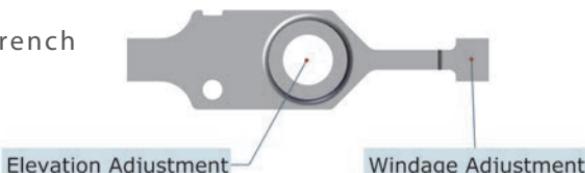
*One click equals 1.4 cm (one square on the zeroing target) at 25 meters both for windage and elevation.*



## 11.2 Zeroing Wrench

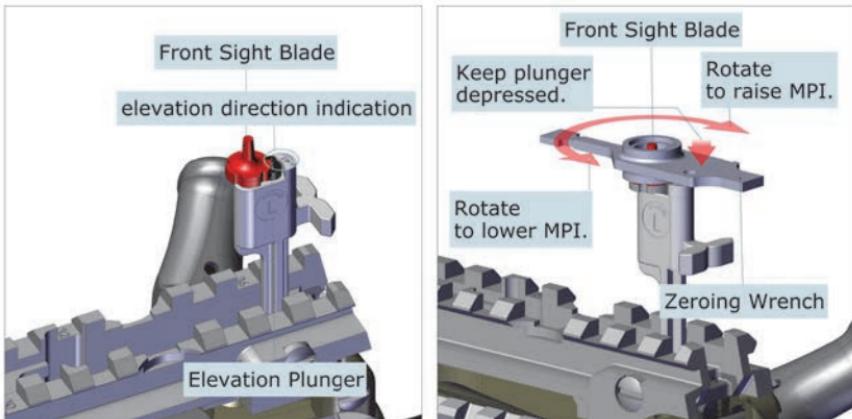
The zeroing correction is done by rotating the *front sight blade* (see left figure in paragraph 11.3) and *windage screw* (see left figure in paragraph 11.4) with the zeroing wrench (during rotation, clicks sound).

Zeroing wrench



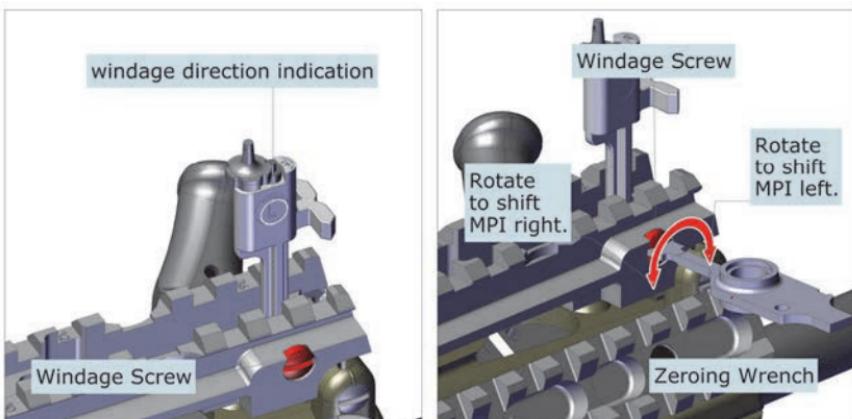
## 11.3 Adjusting Elevation

1. Hold the zeroing wrench with its shorter end pointing in the firing direction.
2. Place the zeroing wrench on the front sight blade and push it down to depress the elevation plunger.
3. While pressing the zeroing wrench, rotate it as follows:.



## 11.4 Adjusting Windage

1. Insert the tip of the longer part of the zeroing wrench into the slot on the head of the windage screw.
2. Rotate the zeroing wrench as follows:



## 12 Stoppage Management

STOPPAGE	Possible Cause	Management
BOLT CARRIER IN FORWARD POSITION	<ul style="list-style-type: none"><li>Magazine not seated properly.</li><li>No round in chamber.</li><li>Bolt not locked due to dirt or lack of lubrication.</li><li>Dud bullet.</li></ul>	<ol style="list-style-type: none"><li>Tap magazine base.</li><li>Cock firearm.</li><li>Continue firing.</li></ol>
	Firing pin broken or worn out.	Contact <a href="mailto:service@iwi.us">service@iwi.us</a> .
BOLT CARRIER IN MIDDLE POSITION	<ul style="list-style-type: none"><li>Double feeding -two rounds chambered simultaneously.</li><li>Cartridge case was not properly extracted.</li></ul>	<ol style="list-style-type: none"><li>Move safety lever to S ("SAFE") position and remove magazine.</li><li>Cock firearm with ejection port pointing towards the ground.</li><li>Insert magazine.</li><li>Cock firearm, disengage safety and continue firing.</li></ol>
	Faulty extractor or ejector.	Contact <a href="mailto:service@iwi.us">service@iwi.us</a> .
BOLT CARRIER IN REAR POSITION	Magazine empty.	<ol style="list-style-type: none"><li>Move safety lever to S ("SAFE") position and remove magazine.</li><li>Insert a full magazine.</li><li>Cock or release bolt carrier stop to chamber a round.</li><li>Disengage safety and continue firing.</li></ol>

# 13 Cleaning & Maintenance



- 1 cleaning rods
- 2 cleaning rod slot tip
- 3 brass brush for cleaning barrel bore
- 4 brush for cleaning chamber & barrel extension
- 5 brush for cleaning internal receiver
- 6 plastic oiler
- 7 general cleaning brush

## 13.1 Pre-Firing Maintenance

1. Perform **Unloading and Safety Check** (see p. 24).
2. Perform **Primary Disassembly** (see p. 43).
3. Wipe out sand and dust from external parts with the general cleaning brush.
4. Pass the cleaning rod with a cleaning patch through the barrel and chamber to be sure the bore is not obstructed and to remove any grease or excess oil.
5. Perform **Primary Reassembly** (see p. 44).

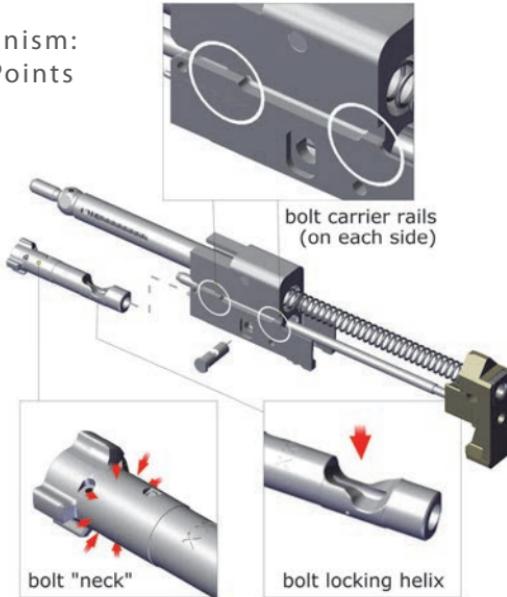
### End of Task

## 13.2 Post-Firing Maintenance

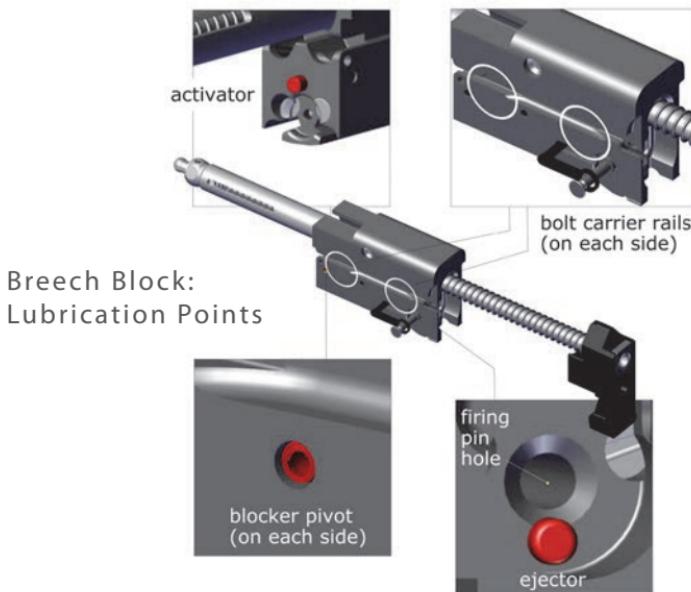
1. Perform **Unloading and Safety Check** (see p. 24).
2. Perform **Primary Disassembly** (see p. 43).
3. Pass the cleaning rod with a cleaning patch through the barrel.
4. Perform **Secondary Disassembly** (see p. 50) and clean the parts thoroughly.
5. Use the factory-supplied oiler to lubricate the moving parts:

...for semi-automatic 5.56 NATO rifle:

Recoil Mechanism:  
Lubrication Points



- bolt carrier rails on both sides: one drop of oil on each point of contact with the insert receiver rails
- bolt "neck" (area behind the locking lugs)
- bolt locking helix

**...for rifle converted to Cal. 9x19mm Parabellum:**

- Place one drop of oil inside the firing pin hole. Insert the firing pin into its hole and pull it out. Repeat several times to ensure smooth movement.
- Place one drop of oil on the ejector head. Depress the ejector several times to work the oil in.
- Lubricate the rails on the breech block (one drop per side on both sides of the breech block).
- Place one drop of oil on each tip of the blocker pivot.
- Place one drop of oil on the head of the firing pin blocker activator. Depress the firing pin blocker activator several times to work the oil in.

6. Perform **Secondary Reassembly** (*see p. 52*).
7. Perform **Primary Reassembly** (*see p. 44*).

**End of Task**

## 13.3 Periodic Maintenance

1. Perform **Unloading and Safety Check** (see p. 24).
2. Perform **Primary Disassembly** (see p. 43).
3. Clean the recoil mechanism using cleaning mixture.
4. Clean the exterior body with the general cleaning brush.
5. Use the chamber and barrel extension cleaning brush to clean the chamber and locking lugs on the barrel extension.
6. Use the internal receiver cleaning brush to clean the interior body.
7. Perform **Secondary Disassembly** (see p. 50) and clean the parts thoroughly.
8. Lubricate according to the instructions in step 5 of the **Post-Firing Maintenance** procedure on page 33.
9. Inspect the moving parts for cracks and fractures, verify the extractor and ejector springiness.
10. Perform **Secondary Reassembly** (see p. 52).
11. Remove the **Sear Mechanism** (see page 46) and clean metal surfaces with the general cleaning brush.
12. Lightly lubricate the hammer spring.

Sear Mechanism:  
Lubrication  
Points

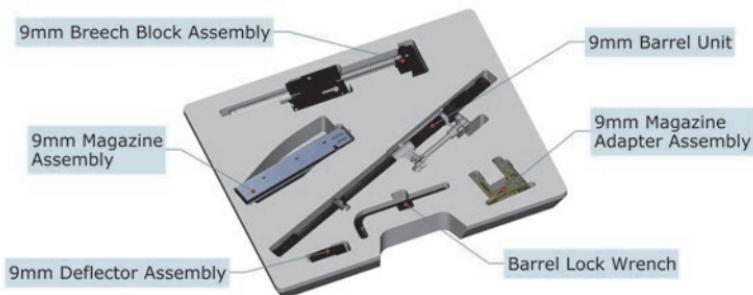


13. Reinstall the **Sear Mechanism** (see page 47).
14. Perform **Primary Reassembly** (see p. 44).
15. Check the integrity of the foregrip and cocking handle and the proper operation of the safety lever.

**End of Task**

# 14 Rifle Conversion

## 14.1 Conversion to Cal. 9x19mm Parabellum



### Components & Parts

- TAVOR® SAR
- Conversion Kit to Cal. 9x19mm Parabellum

### Initial Setup

- 1 **Unloading and Safety Check** of the rifle performed (*see page 24*).
- 2 **Primary Disassembly** performed (*see page 43*).
- 3 **Sear Mechanism removed** (*see page 46*).



**WARNING!** KEEP THE MUZZLE POINTED IN A SAFE DIRECTION AT ALL TIMES. REMOVE ALL AMMUNITION FROM THE WORK AREA BEFORE YOU BEGIN.

To convert between the 5.56 NATO and 9x19mm Parabellum calibers, perform the following tasks:

*To convert the barrel:*

1. Remove the Flattop Rail (*see page 56*).
2. Remove the Front Swivel and Lock (*see page 57*).
3. Remove the Foregrip Group (*see page 59*).
4. Remove the Cocking Group (*see page 60*).
5. Remove the Barrel Group (*see page 64*).
6. Change the barrel group to Cal. 9x19mm Parabellum:
  - a. Disassemble the Barrel Group (*see page 66*).
  - b. Replace the 5.56x45mm Barrel Unit with the 9mm Barrel Unit and reassemble the Barrel Group (*see page 67*).
7. Install the Barrel Group (*see page 65*).
8. Install the Cocking Group (*see page 61*).
9. Install the Foregrip Group (*see page 59*).
10. Install the Front Swivel and Lock (*see page 58*).
11. Install the Flattop Rail (*see page 56*).

*To replace the deflector:*

1. Remove the Deflector (*see page 69*).
2. Remove the Deflector Frame (*see page 70*).
3. Install the 9mm dEflector Assembly according to instructions of **Installing the Deflector** (*see p. 69*)

*To accommodate the 9mm magazine:*

Install the 9mm Magazine Adapter Assembly (*see page 75*).

*To reassemble the rifle:*

**NOTE**

*I* You must remove the Sear Mechanism before inserting the Breech Block Assembly.

1. Replace the Recoil Mechanism with the Breech Block Assembly.
2. Perform **Primary Reassembly** (*page 44*).
3. Reinstall the **Sear Mechanism** (*see page 47*).
4. Perform **Unloading and Safety Check** (*page 24*).

**End of Task****NOTE**

*It is normal for the amount of back pressure to increase while firing the converted rifle in 9mm. This is common with a blowback system.*

## 14.2 Conversion to Left Hand Configuration



### Components & Parts

- TAVOR® SAR
- Left Bolt Conversion Kit

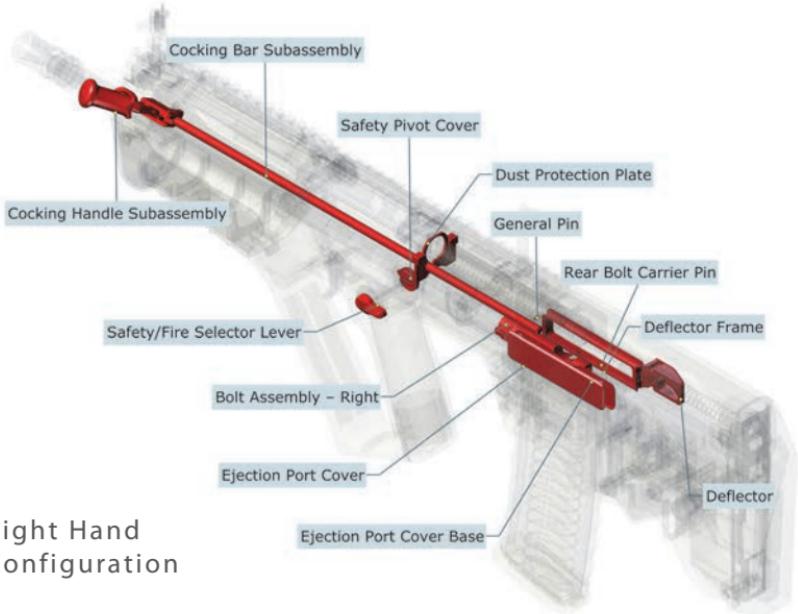
### Initial Setup

- 1 **Unloading and Safety Check** of the rifle performed (*see page 24*).
- 2 **Primary Disassembly** performed (*see page 43*).
- 3 **Recoil Mechanism Partial Disassembly** performed (*see page 50*).

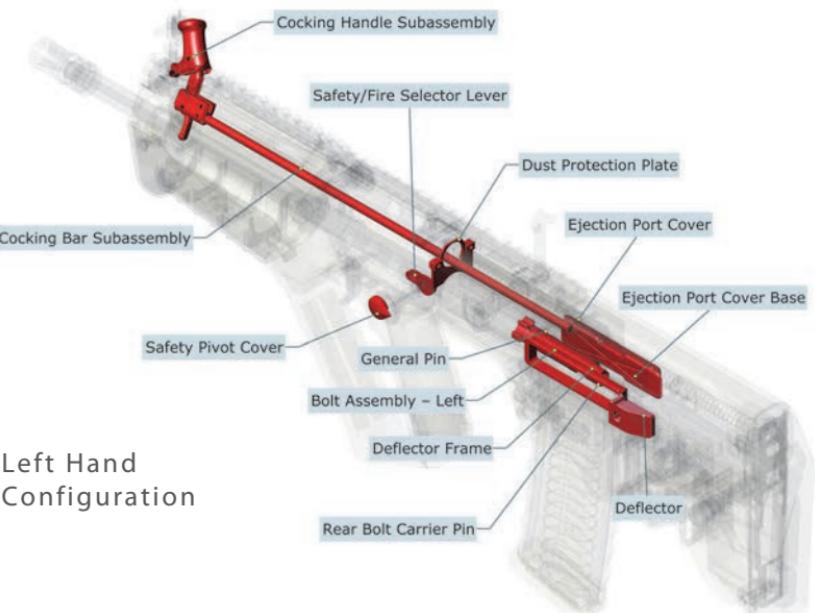


**WARNING!** After the conversion is completed from right to left hand operation, your TAVOR® SAR must be checked for the correct headspace with proper GO and NO-GO headspace gauges. Contact a competent gunsmith to perform this service for you or contact IWI US, Inc. for return of your firearm to IWI US, Inc. for performance of this service. DO NOT fire your TAVOR® SAR until this headspace check has been completed.

Right Hand Configuration



Left Hand Configuration





**WARNING!** KEEP THE MUZZLE POINTED IN A SAFE DIRECTION AT ALL TIMES. REMOVE ALL AMMUNITION FROM THE WORK AREA BEFORE YOU BEGIN.

To convert between the right hand and left hand configurations, perform the following tasks:

*To shift the cocking handle to the right:*

1. Remove the Flattop Rail (*see page 56*).
2. Remove the Front Swivel and Lock (*see page 57*).
3. Remove the Foregrip Group (*see page 59*).
4. Remove the Cocking Group (*see page 60*).
5. Convert the Cocking Group to the left hand shooter:
  - a. Disassemble the Cocking Group (*see page 62*).
  - b. Reinstall the cocking bar and cocking handle on the right side according to instructions in **Reassembling the Cocking Group** (*page 63*).
6. Remove the Barrel (*see page 64*).
7. Convert the Dust Protection Plate to left hand configuration:
  - a. Remove the Dust Protection Plate (*see page 68*).
  - b. Reverse the position of the Dust Protection Plate so that the cocking bar hole is on the right (*see page 68*).
8. Install the Barrel Group (*see page 65*).
9. Install the Cocking Group (*see page 61*).
10. Install the Foregrip Group (*see page 59*).
11. Install the Front Swivel and Lock (*see page 58*).
12. Install the Flattop Rail (*see page 56*).

*To shift the fire selector lever to the right:*

1. Remove the Safety Lever and Safety Pivot Cover (*see page 72*).
2. Reposition the Safety Lever and Safety Pivot Cover (*see page 73*) on the reverse sides (*see page 73*).

To shift the deflector to the left:

1. Remove the Deflector (see page 69).
2. Remove the Deflector Frame (see page 70).
3. Remove the Ejection Port Cover and Cover Base (see page 71).
4. Reinstalling the parts on the reverse sides according to instructions in **Installing the Ejection Port Cover and Cover Base** (page 71).

To convert the moving parts to the left hand shooter:

**...for semi-automatic 5.56 NATO rifle:**

1. Reinstall the Bolt Carrier Rear Pin and the General Pin on the bolt carrier left side (see page 76).
2. Replace the Right Bolt Assembly with the Left Bolt Assembly and perform **Recoil Mechanism Reassembly** (page 52).

**...for rifle converted to Cal. 9x19mm Parabellum:**

Reinstall the General Pin on the left side of the breech block (see page 78).

To reassemble the rifle:

1. Perform **Primary Reassembly** (page 44).
2. Perform **Unloading and Safety Check** (page 24).



**End of Task**

# 15 Disassembly & Reassembly Instructions



**WARNING!** Be sure the rifle is unloaded before starting the disassembly! Keep the muzzle pointed in a safe direction except when the rifle is disassembled and incapable of firing.

## 15.1 Primary Disassembly/Reassembly

### Tools      Initial Setup

None      **Unloading and Safety Check** of the rifle performed (*see page 24*).

### Primary Disassembly

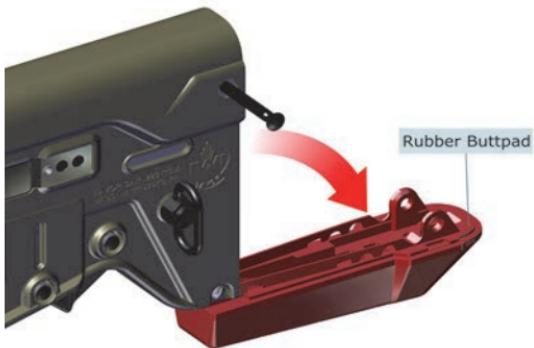
1. Push the butt locking pin on the right side and pull it through the rifle to the left side until it stops.

#### NOTE

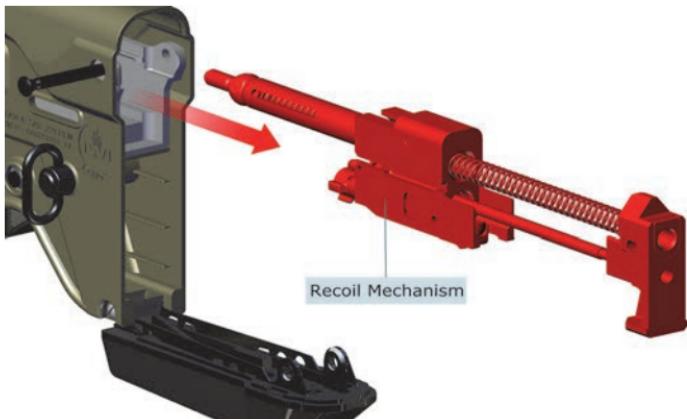
*The pin has a detent to prevent it from being pulled out completely.*



2. Open the butt.



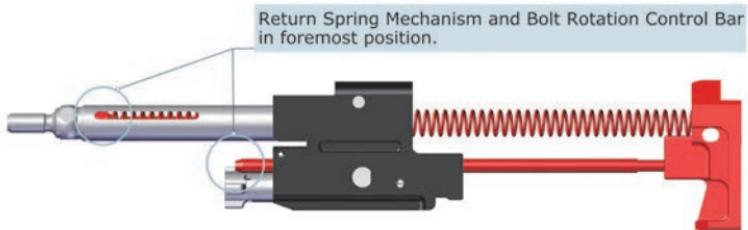
3. Pull the recoil mechanism out of the rifle.



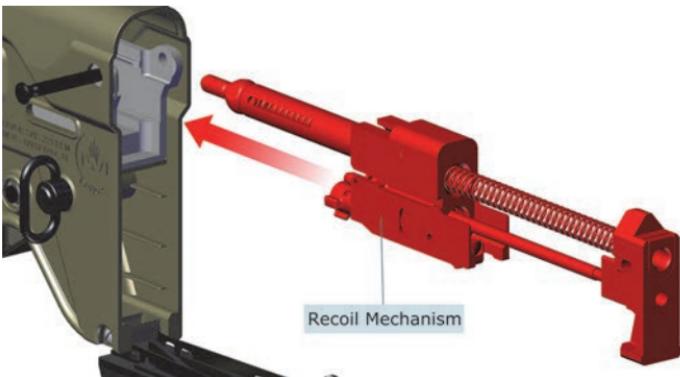
## End of Task

## Primary Reassembly

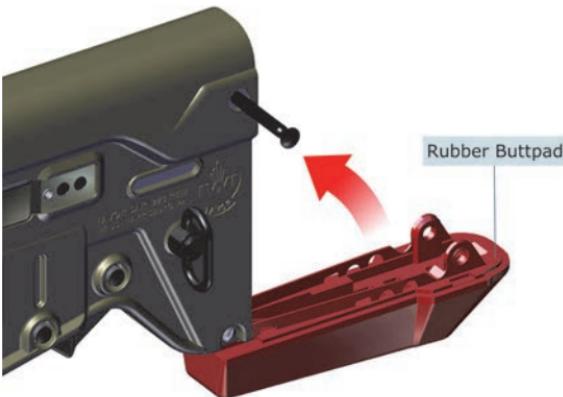
1. Move the return spring mechanism and the bolt rotation control bar to their foremost position.



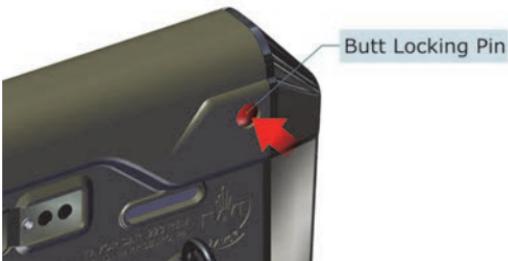
2. Slide the recoil mechanism forward into the body through the rear.



3. Close the butt.



4. Press the butt locking pin to lock the butt.



5. Perform Unloading and Safety Check (see p. 24).

**End of Task**

## 15.2 Removal/Installation of Sear Mechanism

### Tools

### Initial Setup

None

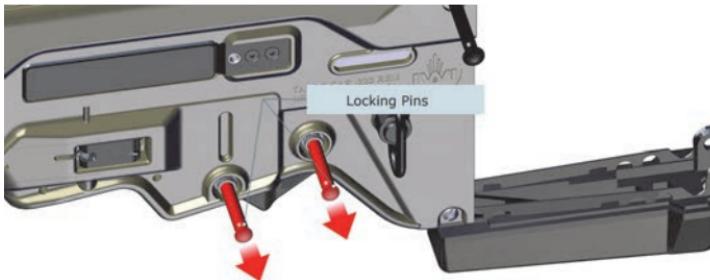
- 1 **Unloading and Safety Check** of the rifle performed (see page 24).
- 2 **Primary Disassembly** performed (see page 43).

### Removing the Sear Mechanism

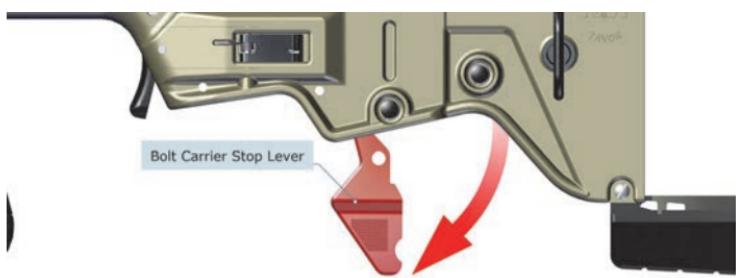
1. Press both locking pins on the right side and pull them through the rifle to the left side until they stop.

#### NOTE

*The pins have detents to prevent them from being pulled out completely.*



2. Open the bolt carrier stop lever.



3. Pull the sear mechanism out of the rifle.



**CAUTION!** Do not release the hammer when the sear mechanism is removed from the rifle. This will damage the housing (see "Hammer Positions" on page 47).



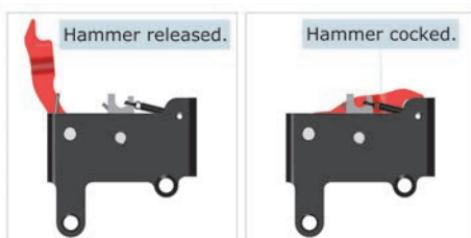
**WARNING!** If you accidentally remove the entire bolt carrier stop assembly from the rifle, perform **Installation of Bolt Carrier Stop Assembly** (see p. 49).

## End of Task

## Installing the Sear Mechanism

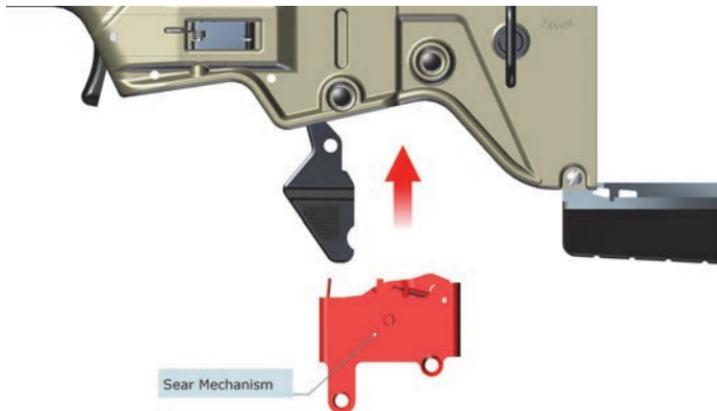


**CAUTION!** Be sure the hammer is cocked during the installation procedure.



Hammer Positions

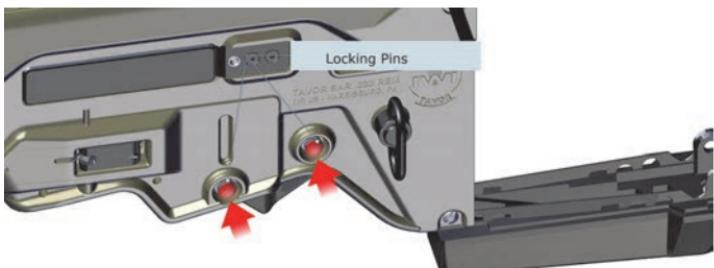
1. Position the sear mechanism inside the rifle body.



2. Close the bolt carrier stop lever.



3. Push the locking pins all the way into the body to secure the sear mechanism and the bolt carrier stop lever in place.



**End of Task**

## 15.3 Installation of Bolt Carrier Stop Assembly

### Tools

None

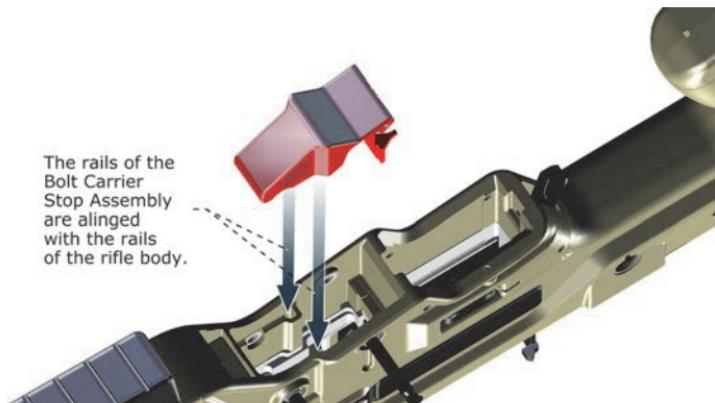
### Initial Setup

Sear Mechanism removed (see page 46).

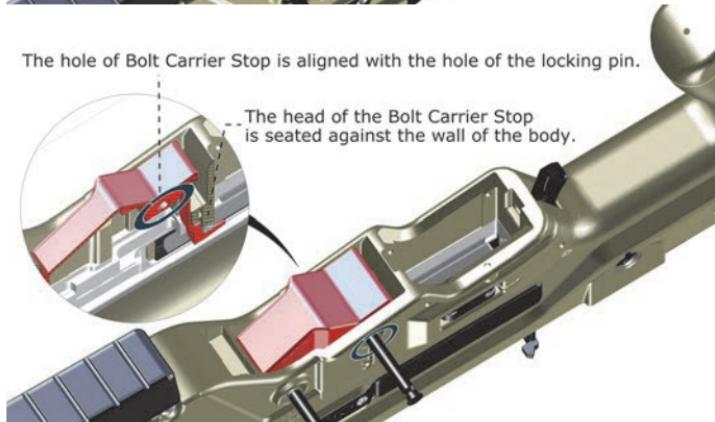
#### NOTE

*Perform this procedure only if you have accidentally removed the entire bolt carrier stop assembly from the rifle.*

Insert the bolt carrier stop assembly into the rifle body, aligning the rails of the lever with those of the body. In the installed position, the head of the bolt carrier stop is seated against the wall inside the rifle body.



The hole of Bolt Carrier Stop is aligned with the hole of the locking pin.



### End of Task

## 15.4 Secondary Disassembly/Reassembly

### Secondary Disassembly

...for semi-automatic 5.56 NATO rifle:

*Recoil Mechanism Partial Disassembly*

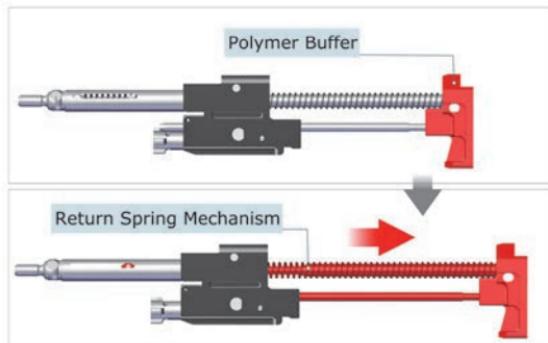
#### Tools

- 5mm Punch
- Plastic Hammer

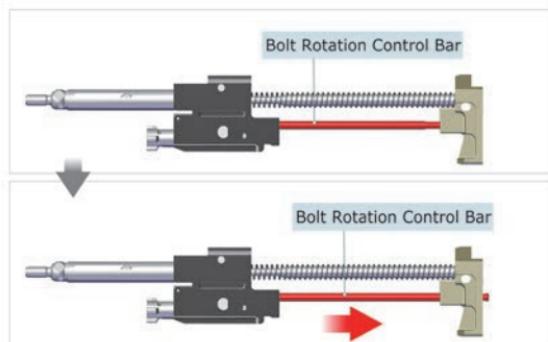
#### Initial Setup

Primary Disassembly performed (*see page 43*).

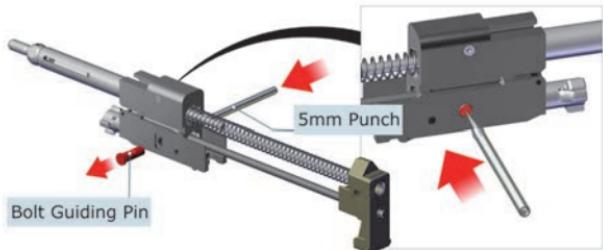
1. Pull on the buffer and move the return spring mechanism all the way to the rear.



2. Draw the bolt rotation control bar all the way to the rear.



- Using a 5mm punch, push the bolt guiding pin out of the bolt carrier.



- Extract the bolt assembly, firing pin spring, and firing pin from the bolt carrier.



## End of Task

**...for rifle converted to Cal. 9x19mm Parabellum:**

*Breech Block Assembly Partial Disassembly*

### Tools

- 3mm Punch
- Plastic Hammer

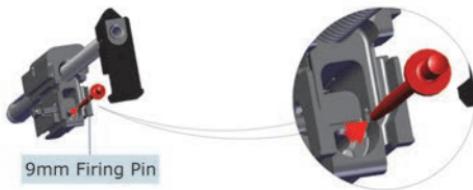
### Initial Setup

Primary Disassembly performed (see page 43).

- Using a 3mm punch and a hammer, slightly push the firing pin locking pin on the right side of the breech block until it is stopped by the detent against the locking spring. **DO NOT PUSH THE FIRING PIN LOCKING PIN OUT COMPLETELY.**



2. Remove the firing pin from the breech block.



## End of Task

## Secondary Reassembly

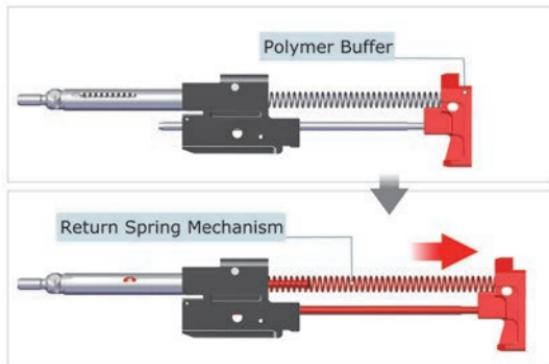
### ...for semi-automatic 5.56 NATO rifle:

#### Recoil Mechanism Reassembly

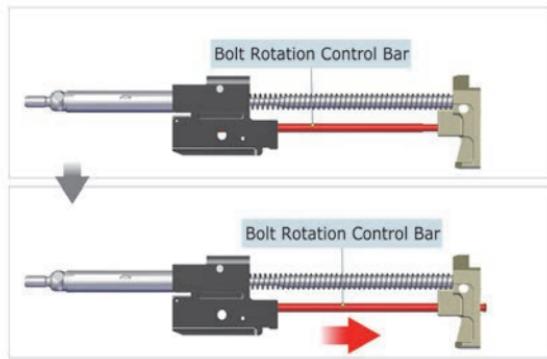


**WARNING!** After the installation of a new bolt, your TAVOR® SAR must be checked for the correct headspace with proper GO and NO-GO headspace gauges. Contact a competent gunsmith to perform this service for you or contact IWI US, Inc. for return of your firearm to IWI US, Inc. for performance of this service. DO NOT fire your TAVOR® SAR until this headspace check has been completed.

1. Pull on the buffer and move the return spring mechanism all the way to the rear.



2. Draw the bolt rotation control bar all the way to the rear.



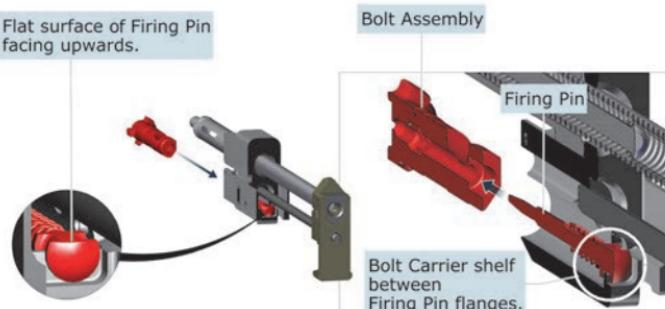
3. Put the firing pin spring on the firing pin and insert the resulting group into the bolt carrier.



#### NOTE

*When inserting the firing pin, the shelf at the rear of the bolt carrier, which is a half-moon shape, should be centered between the two flanges on the firing pin. Be sure the flat edge of the firing pin is facing the top of the carrier (see figure below).*

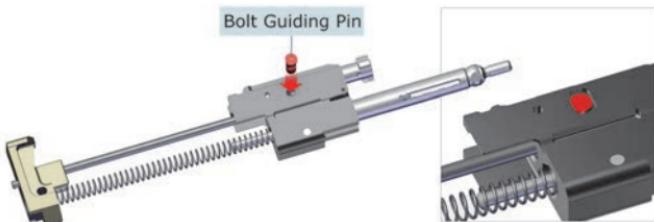
Insert the bolt into the carrier with the firing pin entering the center of the firing pin channel in the bolt.



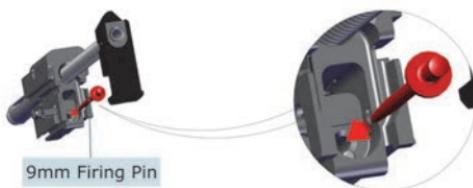
**NOTE**

*With the carrier assembly pointed "piston down", the firing pin should not fall through the bolt carrier.*

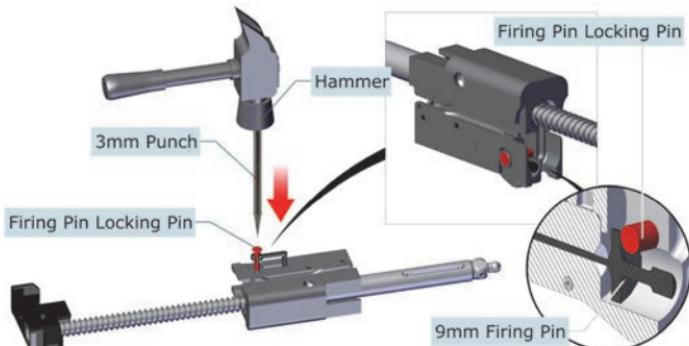
4. Install the bolt guiding pin using thumb pressure only.

**End of Task****...for rifle converted to Cal. 9x19mm Parabellum:***Breech Block Assembly Reassembly*

1. Insert the firing pin into the breech block.



2. Using a hammer and a 3mm punch, push the firing pin locking pin all the way into the breech block.

**End of Task**



**STOP!** You should not disassemble your TAVOR® SAR rifle any further, unless you are a factory-trained and certified armorer.



**WARNING!** Further disassembly by individuals who are not factory-trained and certified as TAVOR® SAR armorers can result in damage to or destruction of the rifle, voiding of the warranty, and possibly the creation of **UNSAFE CONDITIONS THAT COULD RESULT IN DEATH OR SERIOUS INJURY.**

## 15.5 Removal/Installation of Flattop Rail

### Tools

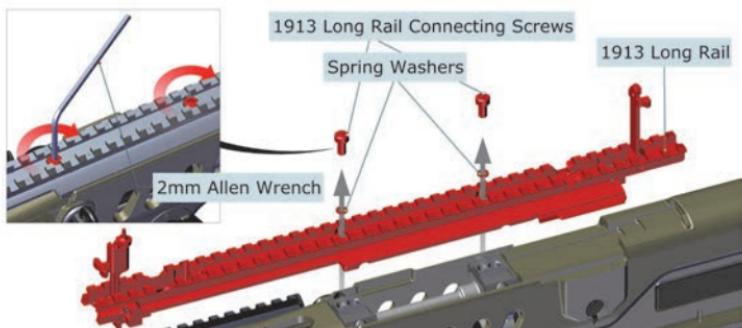
- 2mm Allen Wrench
- Loctite 242

### Initial Setup

- 1 **Unloading and Safety Check** of the rifle performed (*see page 24*).
- 2 **Primary Disassembly** performed (*see page 43*).

### Removing the Flattop Rail

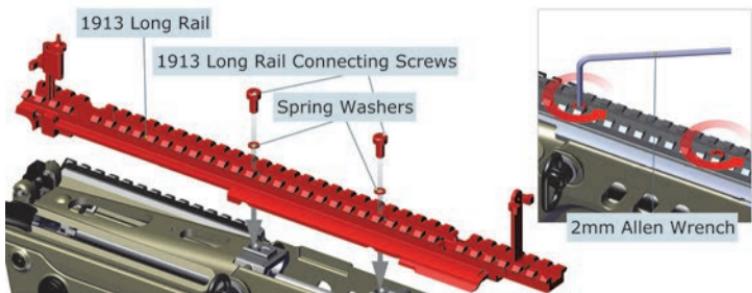
Using a 2mm Allen wrench, unscrew both connecting screws and remove the flattop rail. **KEEP BOTH RAIL BASES CONNECTED TO THE BARREL.**



### End of Task

### Installing the Flattop Rail

1. Position the flattop rail group on the rail bases, starting with the front part of the rail, followed by the rear part of the rail.
2. Apply a thin coat of Loctite 242 to both rail connecting screws. Place the screws on the rail and tighten the screws using a 2mm Allen wrench.



### End of Task

## 15.6 Removal/Installation of Front Swivel and Lock

### Tools      Initial Setup

3mm Punch      1 Unloading and Safety Check of the rifle performed (see page 24).  
                          2 Primary Disassembly performed (see page 43).

### Removing the Front Swivel and Lock

1. Press the swivel button and remove the front swivel from its sleeve.



2. Insert a 3mm punch in the eye of the cotter pin and pull the pin out of its recess in the sling attachment lock.



3. Unscrew the sling attachment lock by rotating counter-clockwise.
4. Using a 3mm punch, push out the swivel sleeve and locking screw.



### End of Task

## Installing the Front Swivel and Lock

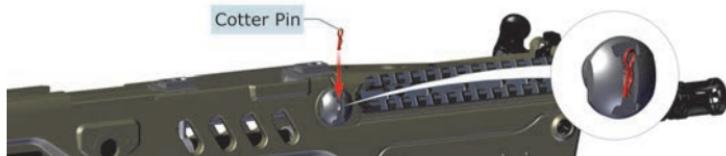
1. Insert the swivel sleeve and locking screw into place on the rifle body.



2. On the rifle opposite side, install the sling attachment lock.



3. Insert the cotter pin into the sling attachment lock.



4. Position the front swivel on the swivel sleeve and push into place



**End of Task**

# 15.7 Removal/Installation of Foregrip Group

## Tools

- Phillips Screwdriver
- Loctite 242

## Initial Setup

Front Swivel and Lock removed (see page 57).

## Removing the Foregrip Group

1. Unscrew the foregrip fastening screws on both sides of the rifle using a Phillips screwdriver.



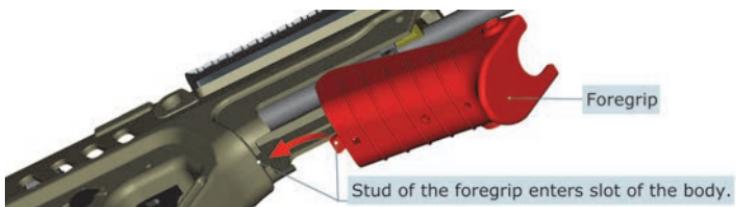
2. Hold the foregrip by its front section and pull the foregrip group down gently from the rifle body.



## End of Task

## Installing the Foregrip Group

1. Place the foregrip on the rifle body, so that the stud on the foregrip enters the slot on the body.



2. Apply a thin coat of Loctite 242 to both foregrip fastening screws, tighten the screws using a Phillips screwdriver.



**End of Task**

## 15.8 Removal/Installation of Cocking Group

### Tools

None

### Initial Setup

Foregrip group removed (*see page 59*).

### Removing the Cocking Group

Slightly pull the body walls apart and remove the cocking group.



**End of Task**

## Installing the Cocking Group

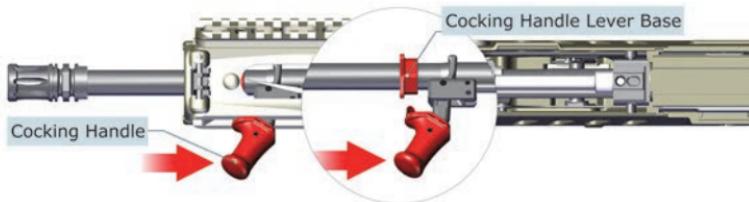


**CAUTION!** Verify the white mark on the barrel locking pivot is aligned with L (Locked) (see step 2 of "Installing the Barrel Group" on page 66).

1. Insert the cocking group into the rifle body, so that the cocking bar enters its hole on the dust protection plate.



2. Move the cocking handle behind the cocking handle lever base.



## End of Task

## 15.9 Partial Disassembly/Reassembly of Cocking Group

### Tools

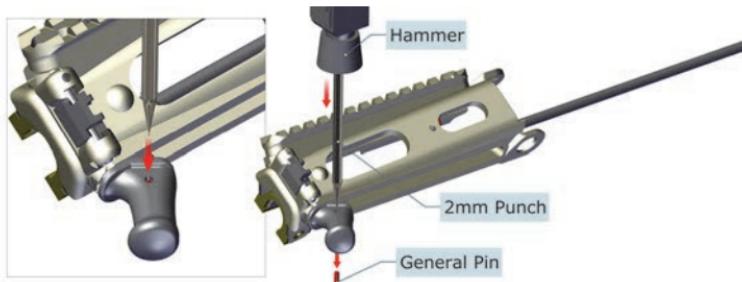
- 2mm Allen Wrench
- 2mm Punch

### Initial Setup

Cocking group removed (see page 60).

## Disassembling the Cocking Group

1. Remove the cocking handle and cocking bar subassembly as follows:
  - a. Using a 2mm punch, push the general pin out of the cocking handle.



- b. Pull the cocking handle and its securing spring off the cocking guide.



- c. Separate the cocking bar subassembly from the cocking guide.



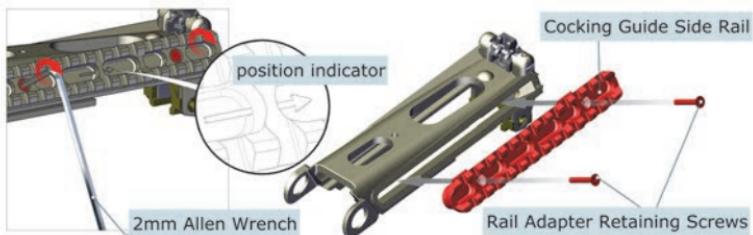
2. Use a 2mm Allen wrench to unscrew both retaining screws and separate the side rail from the cocking guide.



**End of Task**

## Reassembling the Cocking Group

1. Position the side rail on the correct side\* of the cocking guide according to arrow direction (position indicator). Tighten the retaining screws with a 2mm Allen wrench.



2. Install the cocking bar subassembly and cocking handle subassembly as follows:
  - a. Position the cocking bar subassembly on the correct side of the cocking guide according to the shooter configuration.



- b. Assemble the cocking handle and its securing spring on the cocking handle lever.



## End of Task

\*. The illustrations in this manual relate to the right hand shooter configuration. When converting the rifle to the left hand configuration, reposition the part/component on the reverse side whenever prompted.

## 15.10 Removal/Installation of Barrel Group

### Tools

- 2mm Punch
- Barrel Wrench\*

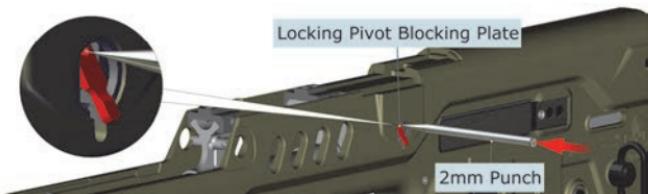
### Initial Setup

- 1 Flattop Rail removed (see page 56).
- 2 Cocking Group removed (see page 60).

\*. The barrel wrench is included with the after-market bolt and/or caliber conversion kit.

### Removing the Barrel Group

1. Using a 2mm punch, unlock the blocking plate of the barrel locking pivot.

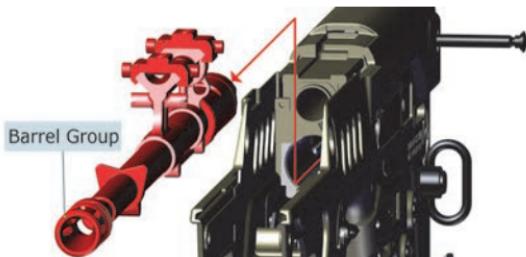


2. While pressing the barrel locking pivot from the left, rotate it 180° clockwise with the barrel wrench, so that the white mark on the barrel locking pivot becomes aligned with O (Open).



*The barrel is now unlocked.*

3. Pull the barrel group out of the rifle.



## End of Task

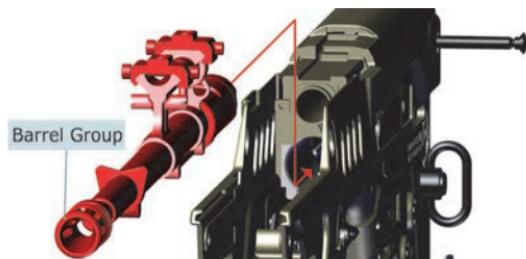
## Installing the Barrel Group



**CAUTION!** Before installing the Barrel Group, verify the following:

- White mark on the barrel locking pivot is aligned with O (Open) (*see step 2 of "Removing the Barrel Group" on page 64*).
- Dust Protection Plate is installed according to the shooter configuration to accommodate the cocking bar (*see page 68*).

1. Position the barrel group inside the rifle body.



**CAUTION!** Do not force the barrel lock wrench inside the locking pivot. If significant resistance is encountered, the barrel may not be properly seated in the rifle body.

2. Using the barrel wrench, rotate the barrel locking pivot 180° counter-clockwise, so that the white mark becomes aligned with L (Locked).



## End of Task

## 15.11 Partial Disassembly/Reassembly of Barrel Group

### Tools

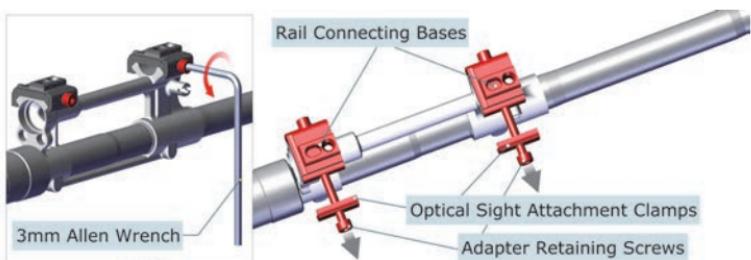
3mm Allen Wrench

### Initial Setup

Barrel Group removed (see page 64).

### Disassembling the Barrel Group

1. Using a 3mm Allen wrench, release both adapter retaining screws. **DO NOT REMOVE THE SCREWS COMPLETELY—KEEP THEM CONNECTED TO THEIR BASES.**



2. Separate the barrel unit from the connecting bases.



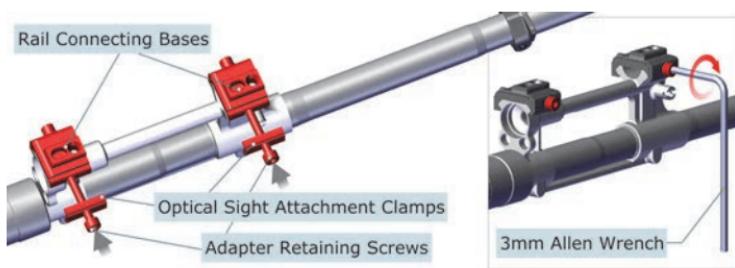
**End of Task**

### Reassembling the Barrel Group

1. Install the rail bases group on the sight base.



2. Tighten the adapter retaining screws on their bases using a 3mm Allen wrench.



**End of Task**

## 15.12 Removal/Installation of Dust Protection Plate

### Tools

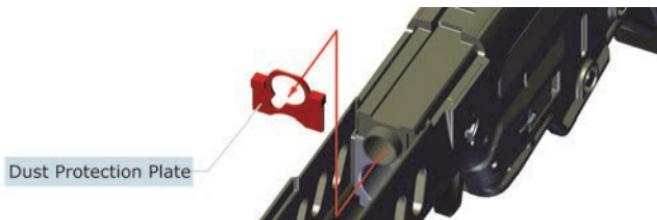
None

### Initial Setup

Barrel Group removed (see page 64).

### Removing the Dust Protection Plate

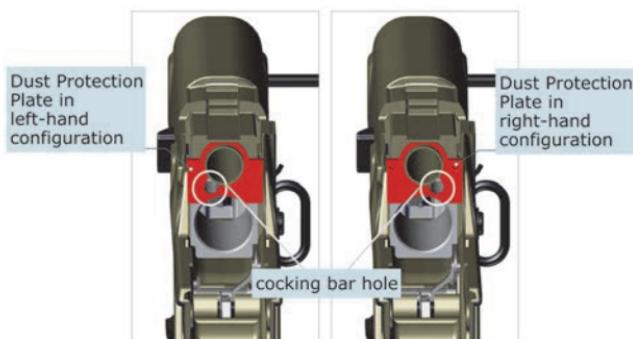
Separate the dust protection plate from the gas cylinder.



### End of Task

### Installing the Dust Protection Plate

Position the dust protection plate on the gas cylinder according to the shooter configuration.



### End of Task

# 15.13 Removal/Installation of Deflector

## Tools

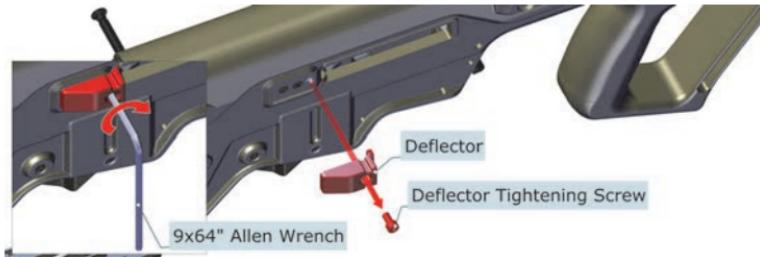
- 9x64" Allen Wrench
- Loctite 242

## Initial Setup

- 1 **Unloading and Safety Check** of the rifle performed (see page 24).
- 2 **Primary Disassembly** performed (see page 43).

## Removing the Deflector

Using a 9x64" Allen wrench, unscrew the deflector tightening screw and remove the deflector.



## End of Task

## Installing the Deflector

1. Position the deflector on the ejection port shield on the correct side of the rifle\*.
2. Apply a thin coat of Loctite 242 on the deflector screw and tighten the screw using a 9x64" Allen wrench.



## End of Task

\*. The illustrations in this manual relate to the right hand shooter configuration. When converting the rifle to the left hand configuration, reposition the part/component on the reverse side whenever prompted.

## 15.14 Removal/Installation of Deflector Frame

### Tools

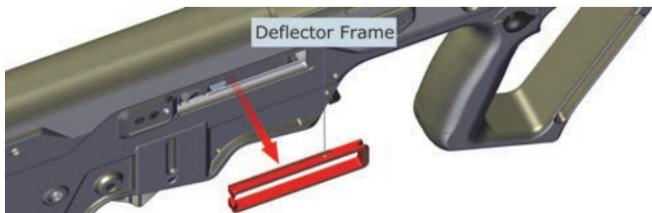
None

### Initial Setup

Deflector removed (see page 69).

### Removing the Deflector Frame

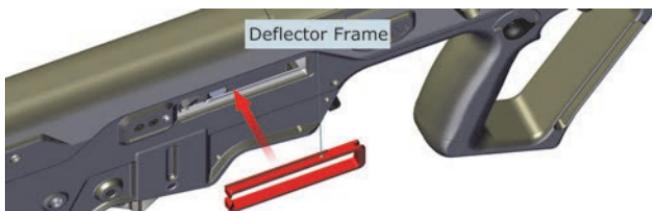
Remove the frame from the rifle body.



### End of Task

### Installing the Deflector Frame

Position the deflector frame in its place on the rifle body, on the correct side\* according to the shooter's configuration.



### End of Task

\*. The illustrations in this manual relate to the right hand shooter configuration. When converting the rifle to the left hand configuration, reposition the part/component on the reverse side whenever prompted.

## 15.15 Removal/Installation of Ejection Port Cover and Cover Base

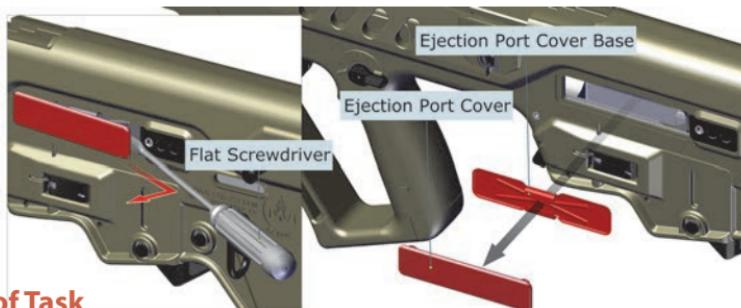
## Tools

## Initial Setup

Flat Screwdriver      1 **Unloading and Safety Check** of the rifle performed (see page 24).  
                            2 **Primary Disassembly** performed (see page 43).

## Removing the Ejection Port Cover and Cover Base

1. Using a flat screwdriver, gently pry up the rear edge of the ejection port cover. Slide the cover rearward off the rifle body.
2. Remove the cover base from the rifle body.



## End of Task

## Installing the Ejection Port Cover and Cover Base

Position the ejection port cover base and port cover on the correct side of the rifle body\*, according to the shooter's configuration.



End of Task

- \*. The illustrations in this manual relate to the right hand shooter configuration. When converting the rifle to the left hand configuration, reposition the part/component on the reverse side whenever prompted.

## 15.16 Removal/Installation of Safety Lever and Safety Pivot Cover

### Tools      Initial Setup

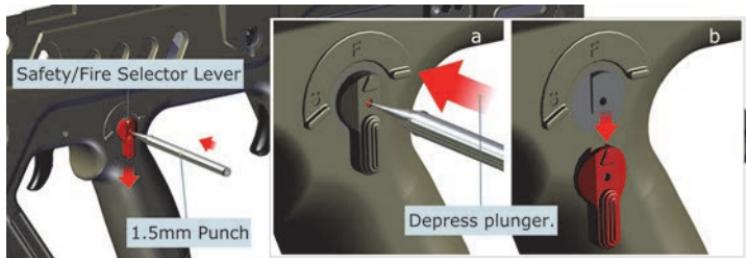
1.5mm Punch      1 Unloading and Safety Check of the rifle performed (*see page 24*).  
1.5mm Punch      2 Primary Disassembly performed (*see page 43*).

### Removing the Safety Lever and Safety Pivot Cover

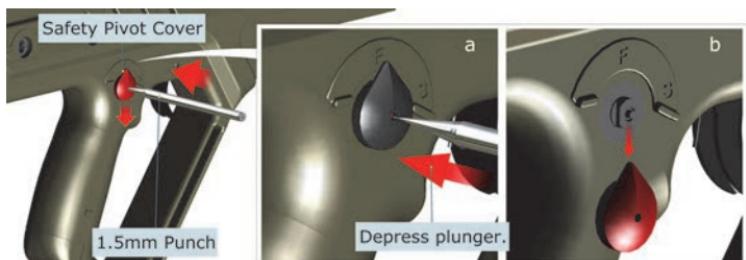
1. Move the Safety Lever to the F (Fire) position.



2. On the rifle left-hand side, depress the safety plunger with a 1.5mm punch and slide the fire selector lever off the safety assembly.



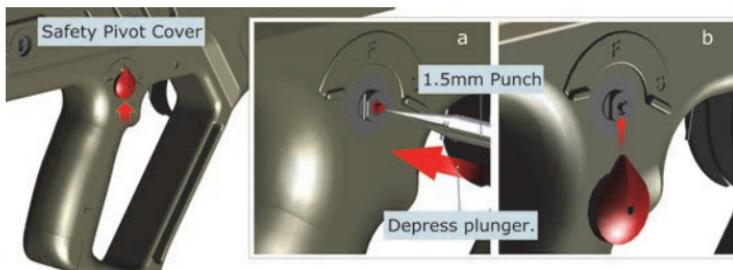
3. On the rifle right-hand side, depress the safety plunger with a 1.5mm punch and slide the safety pivot cover off the safety assembly.



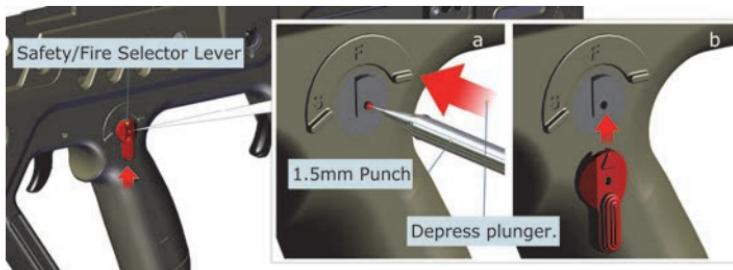
**End of Task**

## Installing the Safety Lever and Safety Pivot Cover

1. Depress the safety plunger with a 1.5mm punch and install the safety pivot cover on the safety assembly on the rifle side\* according to the shooter's configuration.



2. On the rifle opposite side, depress the safety plunger with a 1.5mm punch and install the fire selector lever on the safety assembly.



## End of Task

\*. The illustrations in this manual relate to the right hand shooter configuration. When converting the rifle to the left hand configuration, reposition the part/component on the reverse side whenever prompted.

## 15.17 Removal/Installation of 9mm Magazine Adapter Assembly

### Tools

- 3mm Punch
- Plastic Hammer

### Initial Setup

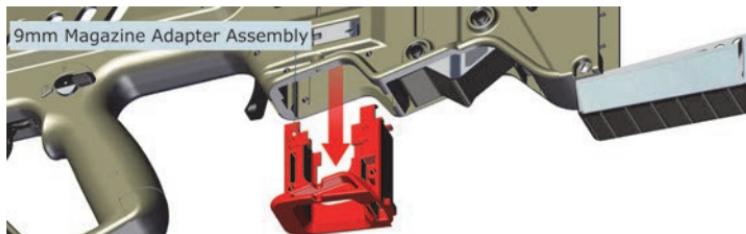
- 1 **Unloading and Safety Check** of the rifle performed (*see page 24*).
- 2 **Primary Disassembly** performed (*see page 43*).

### Removing the 9mm Magazine Adapter Assembly

1. Using a 3mm punch and a hammer, remove the connecting pins securing the adapter assembly.



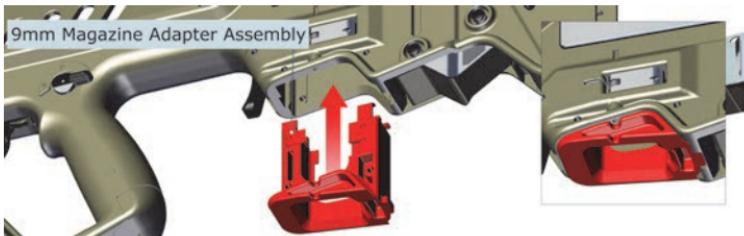
2. Remove the adapter assembly from the rifle body.



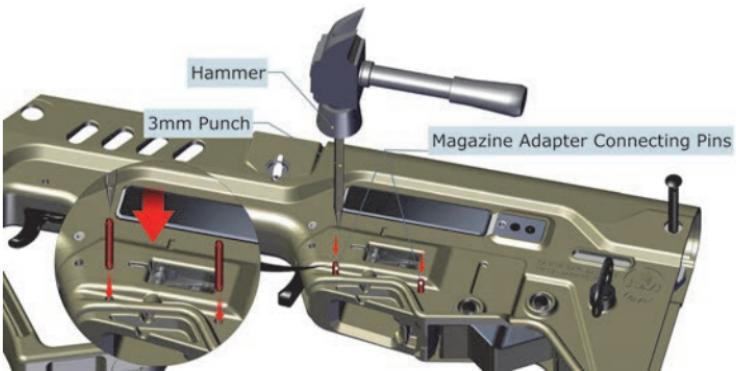
**End of Task**

## Installing the 9mm Magazine Adapter Assembly

1. Insert the adapter assembly through the magazine well into the rifle body.



2. Using a 3mm punch and a hammer, install the connecting pins to secure the adapter assembly in place.



**End of Task**

## 15.18 Converting the Moving Parts to Left-Hand Shooter

...for semi-automatic 5.56 NATO rifle:

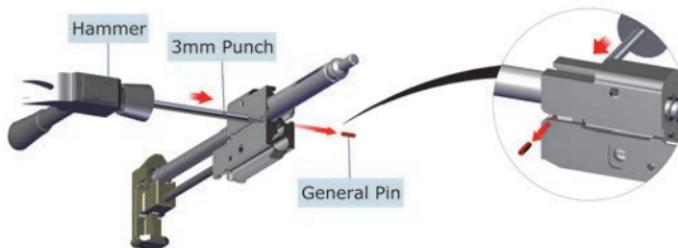
### Tools

- 3mm Punch
- Plastic Hammer

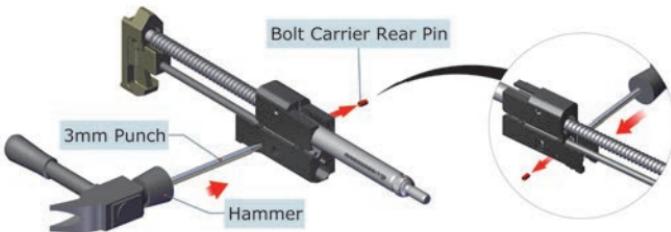
### Initial Setup

- 1 **Unloading and Safety Check** of the rifle performed (*see page 24*).
- 2 **Primary Disassembly** performed (*see page 43*).
- 3 **Recoil Mechanism Partial Disassembly** performed (*see page 50*).

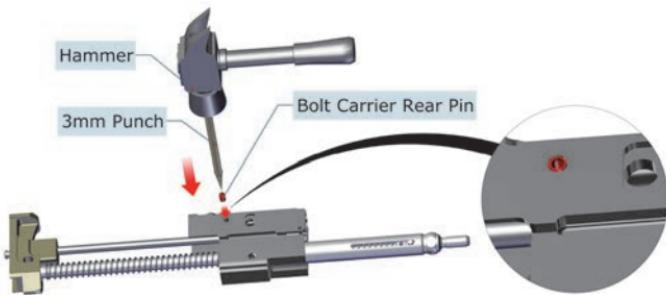
1. Using a 3mm punch and a hammer, remove the general pin from the right side of the bolt carrier.



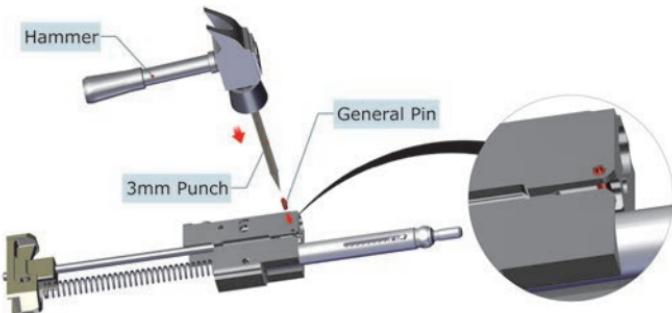
2. Using a 3mm punch and a hammer, remove the rear bolt carrier pin from the right side of the bolt carrier.



3. Install the rear bolt carrier pin on the left side of the bolt carrier using a 3mm punch and a hammer.



4. Install the general pin on the left side of the bolt carrier using a 3mm punch and a hammer.



**End of Task**

## ...for rifle converted to Cal. 9x19mm Parabellum:

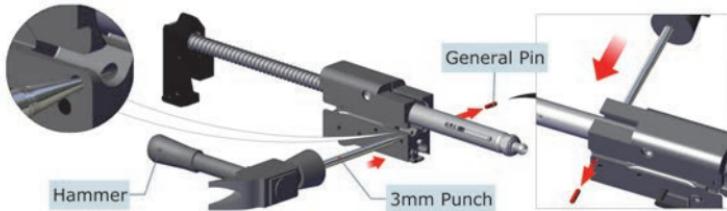
### Tools

- 3mm Punch
- Plastic Hammer

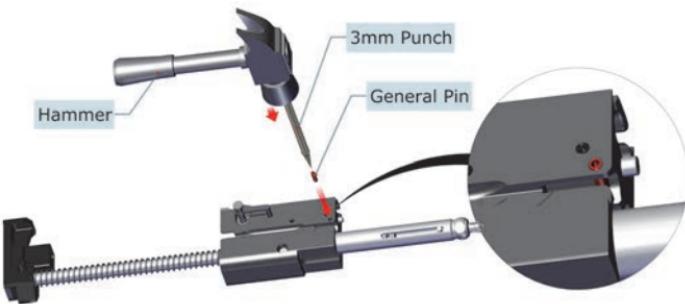
### Initial Setup

- 1 **Unloading and Safety Check** of the rifle performed (*see page 24*).
- 2 **Primary Disassembly** performed (*see page 43*).
- 3 **Breech Block Assembly Partial Disassembly** performed (*see page 51*).

1. Using a 3mm punch and a hammer, remove the general pin from the right side of the breech block.



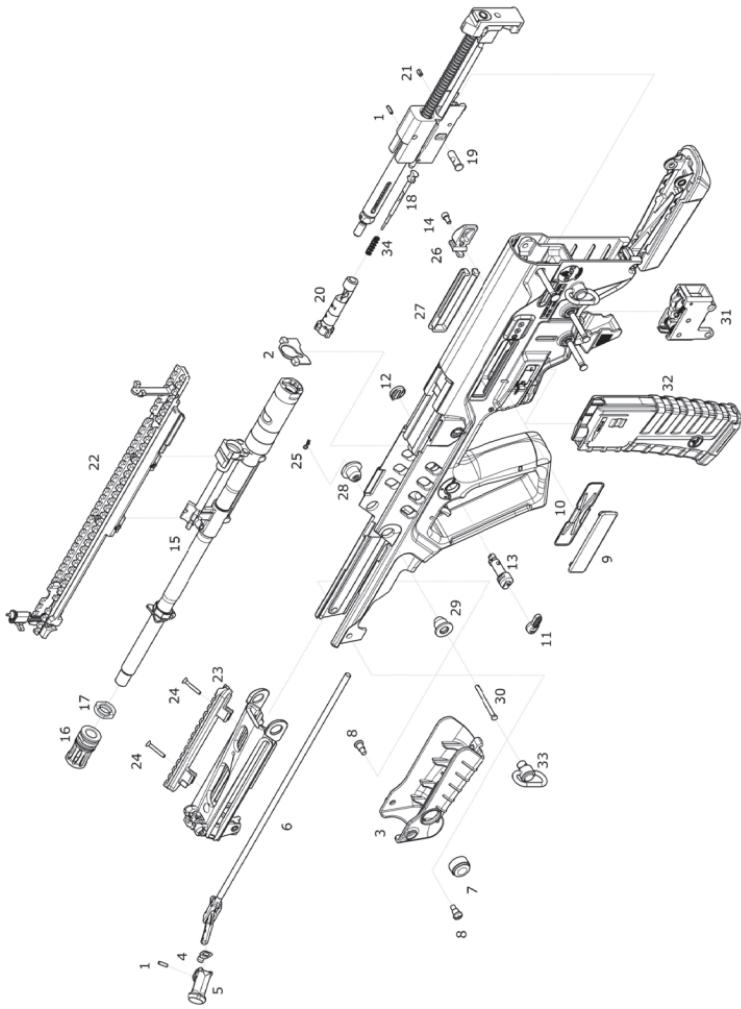
2. Using a 3mm punch and a hammer, install the general pin on the left side of the breech block.



### End of Task

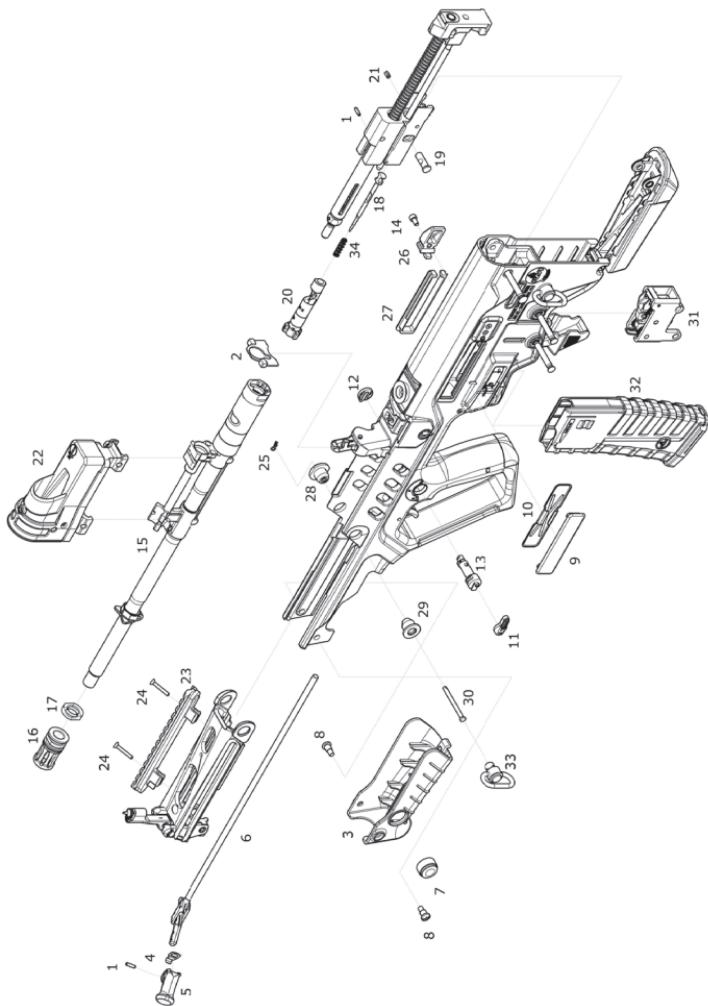
## 16 Parts Lists and Breakdown Diagrams

# 16.1 TAVOR® SAR 5.56 NATO Semi-Automatic Rifle



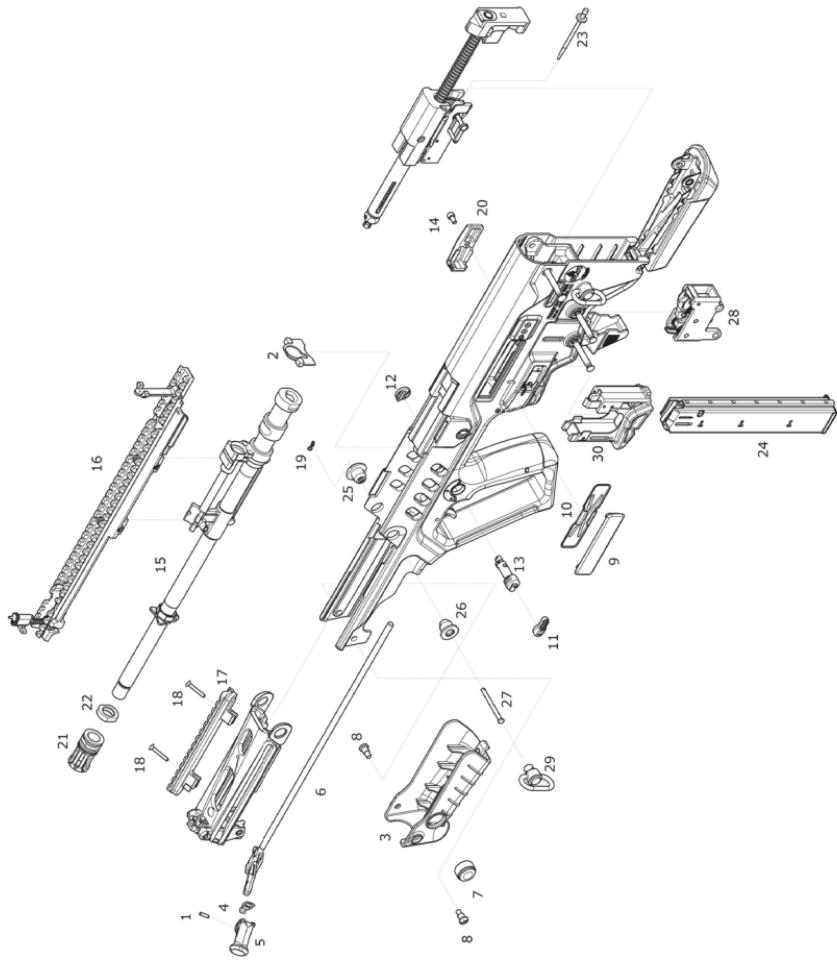
#	Description	Qty
1	General Pin	2
2	Dust Protection Plate	1
3	Foregrip	1
4	Cocking Handle Securing Spring	1
5	Cocking Handle	1
6	Cocking Bar Subassembly	1
7	Laser Activating Button Cover	1
8	Fastening Screw	2
9	Ejection Port Cover	1
10	Ejection Port Cover Base	1
11	Safety/Fire Selector Lever	1
12	Safety Pivot Cover	1
13	Safety Assembly	1
14	Deflector Tightening Screw	1
15	5.45x39mm Barrel Assembly	1
16	Flash Suppressor	1
17	Suppressor Locking Nut	1
18	Firing Pin	1
19	Bolt Guiding Pin	1
20	5.45x39mm Bolt Assembly	1
21	Rear Bolt Carrier Pin	1
22	1913 Long Rail Assembly	1
23	Cocking Guide Side Rail	1
24	Rail Adapter Retaining Screw	2
25	Cotter Pin	1
26	Deflector	1
27	Deflector Frame	1
28	Sling Attachment Lock	1
29	Sling Attachment Sleeve	1
30	Locking Screw	1
31	Sear Mechanism	1
32	5.56 NATO Magazine Assembly	1
33	Swivel	1
34	Firing Pin Spring	1

## 16.2 TAVOR® SAR—IDF Model



#	Description	Qty
1	General Pin	2
2	Dust Protection Plate	1
3	Foregrip	1
4	Cocking Handle Securing Spring	1
5	Cocking Handle	1
6	Cocking Bar Subassembly	1
7	Laser Activating Button Cover	1
8	Fastening Screw	2
9	Ejection Port Cover	1
10	Ejection Port Cover Base	1
11	Safety/Fire Selector Lever	1
12	Safety Pivot Cover	1
13	Safety Assembly	1
14	Deflector Tightening Screw	1
15	Barrel Assembly	1
16	Flash Suppressor	1
17	Suppressor Locking Nut	1
18	Firing Pin	1
19	Bolt Gilding Pin	1
20	Bolt Assembly	1
21	Rear Bolt Carrier Pin	1
22	Integral MPRO 21 Reflex Sight	1
23	Cocking Guide Side Rail	1
24	Rail Adapter Retaining Screw	2
25	Cotter Pin	1
26	Deflector	1
27	Deflector Frame	1
28	Sling Attachment Lock	1
29	Sling Attachment Sleeve	1
30	Locking Screw	1
31	Sear Mechanism	1
32	5.56 NATO Magazine Assembly	1
33	Swivel Pin	1
34	Firing Pin Spring	1

# 16.3 TAVOR® SAR Converted to Cal. 9x19mm Parabellum



#	Description	Qty
1	General Pin	1
2	Dust Protection Plate	1
3	Foregrip	1
4	Cocking Handle Securing Spring	1
5	Cocking Handle	1
6	Cocking Bar Subassembly	1
7	Laser Activating Button Cover	1
8	Fastening Screw	2
9	Ejection Port Cover	1
10	Ejection Port Cover Base	1
11	Safety/Fire Selector Lever	1
12	Safety Pivot Cover	1
13	Safety Assembly	1
14	Deflector Tightening Screw	1
15	9mm Barrel Assembly	1
16	1913 Long Rail Assembly	1
17	Cocking Guide Side Rail	1
18	Rail Adapter Retaining Screw	2
19	Cotter Pin	1
20	9mm Deflector Assembly	1
21	9mm Flash Suppressor	1
22	9mm Suppressor Locking Nut	1
23	9mm Firing Pin	1
24	9mm Magazine Assembly	1
25	Sling Attachment Lock	1
26	Sling Attachment Sleeve	1
27	Locking Screw	1
28	Sear Mechanism	1
29	Swivel	1
30	9mm Magazine Adapter Assembly	1

## 17 Limited Product Warranty

- 1 This Warranty is given by "IWI US, Inc." solely to the original purchaser (the "Purchaser") of IWI US, Inc.'s TAVOR® SAR SEMI-AUTOMATIC RIFLE (the "Product") for a period of 5 years commencing from the date of Product retail purchase (the "Warranty Period").
- 2 Subject to the limitations and exclusions contained below, IWI US, Inc. warrants the Product to be free from defects in design, materials and workmanship. Consequently, should any failure to conform to this Warranty be discovered and brought to the attention of IWI US, Inc. during the Warranty Period, and be substantiated by examination at IWI US, Inc.'s facility or by duly authorized and certified field personnel on IWI US, Inc.'s behalf, IWI US, Inc., at its sole option and free of charge, shall either repair, replace or refund the purchase price of any non-conforming Product.
- 3 This Warranty shall only apply provided that:
  - 3.1 The Product has been transported and stored, handled, maintained, operated and used properly; all in accordance with IWI US, Inc.'s instructions found in this manual.
  - 3.2 No changes, repairs or services were made to the Product by any party other than IWI US, Inc. or an authorized representative of IWI US, Inc.
  - 3.3 The Product was not damaged as a result of improper operation, misuse (whether intentional or otherwise), abuse, negligence, accident or flood, fire, earthquake or other external causes.
  - 3.4 Only appropriate, non-defective new commercial ammunition was fired from the Product.
  - 3.5 The defective Product and/or defective parts shall have been returned by the Purchaser to IWI US, Inc. immediately upon request in conformance with IWI US, Inc.'s return procedures.
- 4 This Warranty does not apply to:
  - 4.1 Maintenance, repair or replacement of parts due to normal wear and tear.
  - 4.2 Expendable items such as batteries (including battery leaks), bulbs, cleaning supplies and other consumables.

- 4.3 Any cosmetic damage that does not impede form, fit, and function of the Product.
- 4.4 Products that show evidence of tampering.
- 4.5 IWI US, Inc. does not warrant that the operation of the product will be uninterrupted, or error-free, or free of stoppages or malfunctions.
- 5 In the event a Product returned to IWI US, Inc. is not defective in design, materials or workmanship or not returned within the Warranty Period, a test and evaluation charge, as determined by IWI US, Inc. will apply.
- 6 IWI US, Inc. will be the sole determining evaluator and authority for adjudicating Warranty claims hereunder.
- 7 THE REPAIR, REPLACEMENT, OR REFUND AS PROVIDED HEREIN ABOVE IS THE SOLE AND EXCLUSIVE REMEDY OF THE PURCHASER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, COURSE OF DEALING AND USAGE OF TRADE. IN NO EVENT SHALL IWI US, Inc. BE LIABLE TO PURCHASER, PURCHASER'S CUSTOMERS OR ANY THIRD PARTY, WHETHER IN CONTRACT OR TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES OR EXPENSES OF ANY KIND, OR PERSONAL INJURIES OR DAMAGE TO PROPERTY OF ANY KIND OR CHARACTER, OR LOSS OF REVENUE OR PROFITS, LOSS OF USE, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE PRODUCT TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY APPLICABLE LAW.
- 8 Some states do not allow the exclusion of consequential or incidental damages, so the above limitations may not apply to you.

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## 18 Repair Services

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If you need assistance with your firearm, please call +1-717-695-2081, Monday through Friday, 8:30AM to 4:30PM US Eastern time and ask to speak to Customer Service. If it is determined that shipment of your firearm to IWI US, or an authorized IWI US, Inc. Service Center is warranted, please prepare and ship as follows:

1. Request a Return Authorization number (RA#) from the IWI US, Inc. Customer Service Representative. Please note that IWI US, Inc. will refuse return/repair shipments without a RA#.
2. Record the serial number of your firearm before packing and shipping.
3. Check to make sure your firearm is unloaded.
4. Remove all accessories from the firearm to prevent loss or damage. IWI US, Inc. will not be responsible for any loss or damage to non-IWI US, Inc. firearms or accessories.
5. Pack your firearm in the original box. If the original box is not available, pack your firearm in a box that will protect it from any handling and/or shipping damage. Be sure that there are no markings and/or words on the outside of the box that indicate there is a firearm inside the box. This will help to deter theft of the firearm while in-transit to IWI US, Inc.
6. Enclose a letter with the firearm detailing the model name and serial number of your firearm along with a full description of the problem. Be sure to include your full name and street address city and state, including zip code, daytime telephone number and email address.
7. Ship your firearm by UPS, FedEx or USPS (US Postal Service). IWI US, Inc. is not responsible for damage or loss during shipment, so you may elect to purchase insurance from the carrier. Ship to the following address:

IWI US, Inc.  
Attn. Service Department  
RA# \_\_\_\_\_  
5480 Linglestown Road  
Harrisburg, PA 17112



**WARNING!**

**DO NOT SEND LIVE AMMUNITION OR SPENT (FIRED) SHELLS/CARTRIDGES IN YOUR FIREARM OR IN THE SAME BOX WITH YOUR FIREARM. THIS IS A VIOLATION OF FEDERAL LAW. IF YOU FEEL YOU MUST SEND SPENT (FIRED) SHELLS/CARTRIDGES, PLEASE SHIP THEM IN A SEPARATE PACKAGE AND INCLUDE A COPY OF THE LETTER THAT YOU PACKED WITH YOUR FIREARM.**



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In the interest of product improvement, its design and performance characteristics may be changed at any time without prior notice.

English Edition Printing September 12, 2013



### **CARDINAL RULES OF FIREARMS SAFETY**

- **TREAT ALL GUNS AS IF THEY WERE LOADED.**
- **POINT THE MUZZLE IN A SAFE DIRECTION AT ALL TIMES. (A "SAFE DIRECTION" IS ONE IN WHICH NO ONE WOULD BE INJURED IF THE GUN WERE TO DISCHARGE.)**
- **KEEP YOUR FINGER OFF THE TRIGGER AND OUTSIDE THE TRIGGER GUARD UNTIL YOU ARE AIMED AT A SAFE TARGET AND INTEND TO FIRE.**
- **BE SURE OF YOUR TARGET AND WHAT'S AROUND AND BEYOND IT.**
- **WHEN YOU PICK UP A GUN THAT, EVEN FOR AN INSTANT, HAS BEEN OUT OF YOUR DIRECT, CONTINUOUS CONTROL, THE FIRST THING YOU MUST DO, WHILE FOLLOWING THE ABOVE RULES, IS TO OPEN THE GUN'S ACTION (MECHANISM) AND DETERMINE WHETHER OR NOT THE GUN IS LOADED.**
- **ALL GUNS LEFT UNATTENDED, EVEN BRIEFLY, MUST BE MADE INOPERABLE OR INACCESSIBLE TO CHILDREN AND OTHER UNAUTHORIZED USERS.**